
CATALOGUE

Cable glands for global applications



ABB provides renowned cable protection solutions, including conduit systems and cable glands for use in many industries worldwide.

Our products deliver significant design and safety benefits and are ideal for many industrial, commercial and hazardous area applications.

Table of contents

004–007	Introduction
008–050	Industrial cable glands
051–056	Rail specific cable glands
057–059	Food and beverage cable glands
060–102	Hazardous areas cable glands
103–107	Accessories
108–120	Standards & technical information
121–131	Index

Everything you need, anywhere in the world... a one-stop solution for high quality cable glands

Our brands are now united under one ABB name, bringing you ease of use and selection – No matter how challenging your environment may be.

Through one easy chart, you can now find high-specification protective cable glands that are suitable for specific harsh conditions, including high or extreme temperature ranges, oil exposure, UV exposure, food & beverage use or highly corrosive environments. Solutions are also readily available for a broad range of general purpose uses.

Your new simplified buying process offers:

- Online / printed catalog and website
- One point of contact
- Sales process

Certifications

Designed to meet and exceed global specifications for IEC and NEC wiring standards, ABB cable glands also meet and exceed international and North American certification requirements including ATEX, IECEx, UL and CSA, as well as regional and various marine certifications.

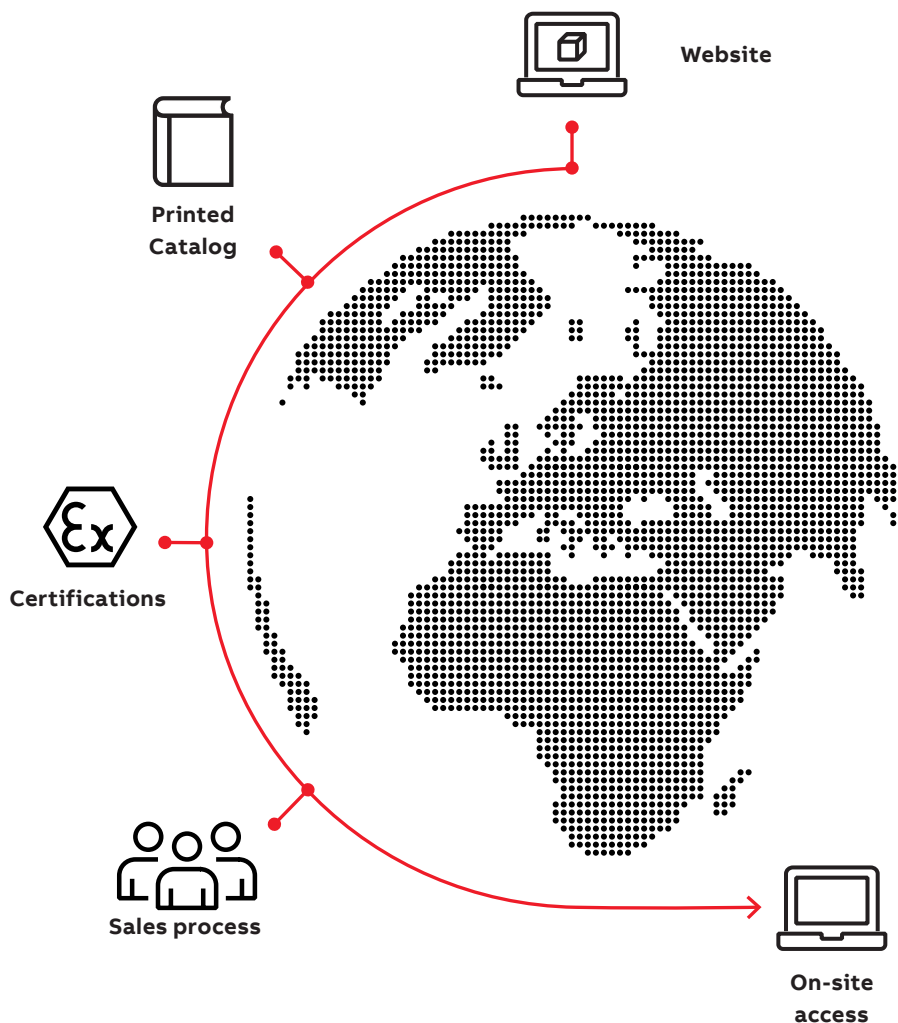
Available approvals and certifications:



EVERYTHING YOU NEED IN

One

One-stop solution for high quality cable glands



COMPLETE CABLE PROTECTION PORTFOLIO

The complete ABB line of cable glands and fittings is complemented by the worldwide availability of ABB's comprehensive cable protection portfolio. ABB's offering is amongst the world's largest range of electrical equipment for hazardous, explosive, classified and industrial environments.



Vertical market solutions



01

01 Food & beverage
processing industry
02 Rail infrastructure
03 Marine

Food & beverage processing industry

At ABB, we understand the challenges you face in the food and beverage processing industry today. We're dedicated to providing electrical solutions that address the critical issues in every area of your operation, so you can focus on plant sustainability, cost, quality, flexibility, food and personnel safety and regulatory challenges across the production cycle.



02

Rail infrastructure

This range of cable glands can be installed anywhere where low smoke and toxicity combined with wide temperature characteristics, versatile cable clamping and resistance to oils and chemicals may be required.

Designed to meet the latest European safety standard EN45545 and the European Technical Specification for Interoperability (TSI), these cable glands achieve the highest HL3 fire performance rating for both interior and exterior locations, making them suitable for rail rolling stock and infrastructure usage.



03

Marine

Safety and reliability are vital considerations within one of the harshest operational environments to be found. Products specified and installed within this sector have to face the particular damaging effects from being in exposed areas subject to salt spray conditions. Vibration and temperature extremes add to the challenge.

ABB offers a broad range of solutions that are resistant to abrasion, impact, corrosion and chemical exposure, with long service life and low fire hazard properties.

—
04

—
04 Oil and gas industry
—
05 Chemical industry
—
06 Power generation

Oil and gas industry

Oil and gas customers rely on ABB's application expertise, which comes from decades of experience. Our range of hazardous location cable glands are designed, manufactured and independently certified to suit your application need anywhere in the world.

—
05**Chemical industry**

In order to be profitable running special batches or continuous commodity compounds, you need reliable, robust and cost-effective equipment. That's why we continually invest in R&D for new and improved products, as well as furthering out expertise in the industry

—
06**Power generation**

The power generation industry is currently undergoing a transformation. New and emerging technological developments, support cleaner and more efficient energy generation. ABB is leading the way with high-quality, innovative electrical systems and devices that perform optimally with minimal product life cycle costs.

Industrial

Cable glands

Supported by global certifications and our commitment to quality and research, ABB offers industrial cable glands for a broad array of applications anywhere you need them.

- 01 NCG Series
- 02 BCG Series
- 03 Quick-Connect™

With varieties designed to withstand wet or dry locations, indoor or outdoor use and corrosive conditions, ABB offers a general purpose industrial gland to meet your need. Backed by thorough testing, ABB glands meet or exceed regulatory and certification standards, no matter where on the globe you need to use them.

Cable glands provide sealed entry into enclosures, motors, panels or any other device, limiting the ingress of water and dust. Regardless of the configuration, ABB's high quality standards help to extend system life and minimize downtime.

Available in stainless steel, nickel-plated brass, aluminum or nylon, our cable glands are available in a variety of thread types, shapes and hole configurations. Self-grounding varieties are available, along with a full array of accessories.



01



02



03

INDUSTRIAL CABLE GLANDS

ABB industrial cable glands can be installed anywhere. Supported by global certifications and type approvals, we have a solution for most applications.



Cable glands for industrial applications

Selection guide

Selection guide									
	NPG	NCG	NCGS	NSG	BCG	SCG	BEM	MSG	SSG
General									
Commercial Building	•	•	•	–	–	–	–	–	–
Residential Building	•	•	–	–	–	–	–	–	–
Industrial MRO	–	•	–	–	•	–	–	•	–
Low Ingress	–	•	–	–	•	–	–	–	–
OEM									
General Applications	•	•	–	•	•	–	–	•	–
Industrial Machinery	–	–	–	–	–	–	–	•	–
Commercial Machinery	–	–	–	–	–	–	–	•	–
Panel Building	•	•	–	–	•	–	•	•	–
Lighting	–	•	–	•	–	–	–	–	–
Rail									
Traction - Exterior	–	–	–	–	•	•	–	•	•
Traction - Interior	–	•	–	–	–	–	–	–	–
Infrastructure - Exterior	–	–	–	–	•	•	–	•	•
Infrastructure - Interior	–	•	–	–	–	–	–	–	–
Automation									
Robotics	•	•	–	–	•	–	•	•	•
Control systems	•	–	•	–	•	–	•	–	–
Enclosures and Motors	•	•	–	–	•	–	•	–	–
Marine									
General Applications	–	•	–	–	–	•	–	–	•
Outdoor Applications	–	•	–	–	–	•	–	–	•
Passenger/Crew Areas	–	•	–	–	–	•	–	–	–
Oil and Gas									
IEC standards	–	–	–	–	–	–	–	–	–
NEC Standards	–	–	–	–	–	–	–	–	–
Other									
Solar	•	•	•	–	•	–	•	•	–
Food and Beverage	–	–	–	–	–	–	–	–	–
Chemical Plants	–	–	–	–	–	•	–	–	•
Data Centres	–	–	–	–	•	–	•	–	–
Waste Water Management	–	–	–	–	–	•	–	–	•
Page No.	12	13	17	20	25	30	35	37	46



ASG	Rail Specific applications			Food & Beverage applications	
	RNCG	RBCG	RBSG	FSCG	FSEM
-	-	-	-	-	-
-	•	•	•	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
•	•	•	•	-	-
-	•	•	•	-	-
•	•	•	•	-	-
-	•	•	•	-	-
•	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	•	•
-	-	-	-	•	•
-	-	-	-	-	-
-	-	-	-	-	-
47	52	54	56	58	59

NPG Quick-Connect™

Cable glands



ABB's latest cable gland offering, the NPG Quick-Connect™, allows for fast and effective fitting without access to the inside of an enclosure, greatly speeding installation. The speed and ease of installation makes the NPG ideal for panel builders and volume installers of all types.

NPG Quick-Connect™ is a single-piece, corrosion resistant nylon gland suitable for non-armored, portable and tray cable types. When installed, the NPG achieves ingress protection of IP66 or IP68 (5 bar 30 mins).

Dimensions

Metric thread	Part no.	Metric thread	Cable size		Hole size		Nominal dimensions (mm/in)				
			Min. (mm/in)	Max. (mm/in)	Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
	NPG-M161x (cURus)	M16	5.0 0.197	10.0 0.394	16.2 0.638	16.4 0.646	9.0 0.354	42.5 1.673	26.5 1.043	22.0 0.866	22.0 0.866
	NPG-M201x (cURus)	M20	6.0 0.236	12.0 0.472	20.2 0.795	20.4 0.803	9.0 0.354	41.5 1.634	30.3 1.193	24.0 0.945	24.0 0.945
	NPG-M202x (cURus)	M20	7.0 0.276	13.0 0.512	20.2 0.795	20.4 0.803	9.0 0.354	41.5 1.634	30.3 1.193	25.0 0.984	25.0 0.984
	NPG-M251x (cURus)	M25	11.0 0.433	17.0 0.669	25.2 0.992	25.4 1.000	9.0 0.354	43.5 1.713	36.3 1.429	29.0 1.142	29.0 1.142
	NPG-M321x (cURus)	M32	15.0 0.591	21.0 0.827	32.2 1.268	32.4 1.276	9.0 0.354	49.5 1.949	43.2 1.701	36.0 1.417	36.0 1.417

NPT thread	Part no.	NPT thread	Cable size		Hole size		Nominal dimensions (mm/in)				
			Min. (mm/in)	Max. (mm/in)	Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
	NPG-0381x	3/8"	5.0 0.197	10.0 0.394	17.65 0.695	18.85 0.742	10.0 0.394	41.2 1.673	26.5 1.043	22.0 0.866	22.0 0.866
	NPG-0501x	1/2"	6.0 0.236	12.0 0.472	21.84 0.860	23.01 0.906	10.0 0.394	39.2 1.543	30.5 1.201	24.0 0.945	24.0 0.945
	NPG-0502x	1/2"	10.0 0.394	14.0 0.551	21.84 0.860	23.01 0.906	10.0 0.394	39.8 1.689	30.5 1.201	27.0 1.063	27.0 1.063
	NPG-0751x	3/4"	13.0 0.512	18.0 0.709	27.78 1.094	28.98 1.141	10.0 0.394	41.9 1.650	39.0 1.535	33.0 1.299	33.0 1.299
	NPG-1001x	1"	18.0 0.709	25.0 0.984	34.51 1.359	35.71 1.406	10.0 1.972	50.1 1.972	47.5 1.870	42.0 1.654	42.0 1.654

Note for colour: x in part number - B-Black (RAL 9001), G-Grey (RAL 7001), LG-Light grey (RAL 7035)

Quick-Connect™ - NPG Series - Nylon cable gland

Approvals & certifications		Conformity
		Conforms to:
		EN 62444
		UL514B (see table for details)
		CSA C22.2 No 18.3
Temperature range		
		Normal Use: -20°C to +100°C (-4°F to +212°F)
		Short Term: -30°C to +150°C (-22°F to +302°F)
IP Rating	Material	
IP66	Halogen free nylon (PA6)	
IP68 (5-Bar 30 mins)	construction	
	Available in black, grey, and light grey	
	Chloroprene seals	

Under normal use, NPG Quick-Connect™ glands are rated to perform from -20°C to 100°C (-4°F to 212°F), but in shorter bursts can withstand -30°C to 150°C (-22°F to 302°F).

Nylon cable glands for general purpose use

NCG Series



NCG Series - Nylon cable gland

Features and benefits:

- Low profile cable glands
- Wide cable clamping range
- Corrosion resistant

Approvals & certifications 	Conformity Conforms to:		Temperature range	
	EN 62444		Normal Use: -20°C to +100°C (-4°F to +212°F)	
	UL514B (see table for details)		Short Term: -30°C to +150°C (-22°F to +302°F)	
	CSA C22.2 No 18.3			
		IP Rating	Material	
		IP66	Halogen free nylon construction	
		IP68 (5-Bar 30 mins)	Chloroprene seals	
		NEMA 4	Available in black, grey and light grey	

Dimensions

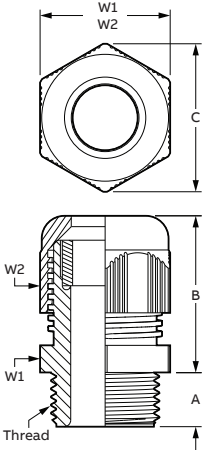
Metric thread	Part no.	Metric thread	Cable range		Nominal dimensions (mm/in)				
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
	NCG-M121x	M12x1.5	2.0	5.0	8.0	23.0	16.9	15.0	15.0
			0.079	0.197	0.315	0.906	0.665	0.591	0.591
	NCG-M122x (cURus)	M12x1.5	3.0	6.5	8.0	23.0	16.9	15.0	15.0
			0.118	0.256	0.315	0.906	0.665	0.591	0.591
	NCG-M161x	M16x1.5	2.0	6.0	8.0	26.5	21.9	19.0	19.0
			0.079	0.236	0.315	1.043	0.862	0.748	0.748
	NCG-M161x-L	M16x1.5	2.0	6.0	15.0	26.5	21.9	19.0	19.0
			0.079	0.236	0.591	1.043	0.862	0.748	0.748
	NCG-M162x (cURus)	M16x1.5	4.0	8.0	8.0	26.5	21.9	19.0	19.0
			0.157	0.315	0.315	1.043	0.862	0.748	0.748
	NCG-M162x-L	M16x1.5	4.0	8.0	15.0	26.5	21.9	19.0	19.0
			0.157	0.315	0.591	1.043	0.862	0.748	0.748
	NCG-M163x (cURus)	M16x1.5	5.0	10.0	10.0	30.0	25.0	22.0	22.0
			0.197	0.394	0.394	1.181	0.984	0.866	0.866
	NCG-M163x-L (cURus)	M16x1.5	5.0	10.0	15.0	30.0	25.0	22.0	22.0
			0.157	0.315	0.591	1.043	0.862	0.748	0.748
	NCG-M201x	M20x1.5	5.0	9.0	10.0	30.0	27.0	24.0	24.0
			0.197	0.354	0.394	1.043	1.063	0.945	0.945
	NCG-M201x-L	M20x1.5	5.0	9.0	15.0	30.0	27.0	24.0	24.0
			0.197	0.354	0.591	1.043	1.063	0.945	0.945

Note for colour: x in part number - B-Black (RAL 9001), G-Grey (RAL 7001), LG-Light grey (RAL 7035)

Nylon cable glands for general purpose use

NCG Series

Dimensions

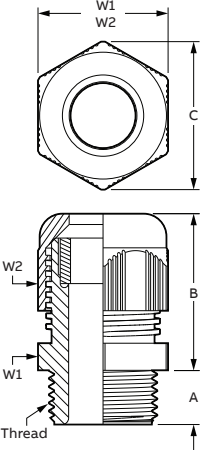
Metric thread	Part no.	Metric thread	Cable range		Nominal dimensions (mm/in)				
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
	NCG-M202x (cULus)	M20x1.5	6.0 0.236	12.0 0.472	10.0 0.394	30.0 1.181	27.0 1.063	24.0 0.945	24.0 0.945
	NCG-M202x-L (cULus)	M20x1.5	6.0 0.236	12.0 0.472	15.0 0.591	30.0 1.181	27.0 1.063	24.0 0.945	24.0 0.945
	NCG-M203x (cULus)	M20x1.5	10.0 0.394	14.0 0.551	10.0 0.394	33.5 1.319	31.0 1.22	27.0 1.063	27.0 1.063
	NCG-M203x-L (cULus)	M20x1.5	10.0 0.394	14.0 0.551	15.0 0.591	33.5 1.319	31.0 1.22	27.0 1.063	27.0 1.063
	NCG-M251x	M25x1.5	9.0 0.354	16.0 0.63	10.0 0.394	38.0 1.496	38.0 1.496	33.0 1.299	33.0 1.299
	NCG-M251x-L	M25x1.5	9.0 0.354	16.0 0.63	15.0 0.591	38.0 1.496	38.0 1.496	33.0 1.299	33.0 1.299
	NCG-M252x (cULus)	M25x1.5	11.0 0.433	17.0 0.669	8.0 0.315	38.0 1.496	32.5 1.28	29.0 1.142	29.0 1.142
	NCG-M252x-L	M25x1.5	11.0 0.433	17.0 0.669	15.0 0.591	36.0 1.417	32.5 1.28	29.0 1.142	29.0 1.142
	NCG-M253x (cULus)	M25x1.5	13.0 0.512	18.0 0.709	10.0 0.394	38.0 1.496	38.0 1.496	33.0 1.299	33.0 1.299
	NCG-M253x-L	M25x1.5	13.0 0.512	18.0 0.709	15.0 0.591	38.0 1.496	38.0 1.496	33.0 1.299	33.0 1.299
	NCG-M321x	M32x1.5	11.0 0.433	15.0 0.591	10.0 0.394	42.5 1.673	41.0 1.614	36.0 1.417	36.0 1.417
	NCG-M321x-L	M32x1.5	11.0 0.433	15.0 0.591	15.0 0.591	42.5 1.673	36.0 1.417	36.0 1.417	36.0 1.417
	NCG-M322x (cULus)	M32x1.5	15.0 0.591	21.0 0.827	10.0 0.394	42.5 1.673	41.0 1.614	36.0 1.417	36.0 1.417
	NCG-M322x-L	M32x1.5	15.0 0.591	21.0 0.827	15.0 0.591	42.5 1.673	41.0 1.614	36.0 1.417	36.0 1.417
	NCG-M323x (cULus)	M32x1.5	18.0 0.709	25.0 0.984	15.0 0.591	42.0 1.654	47.3 1.862	42.0 1.654	42.0 1.654
	NCG-M401x	M40x1.5	16.0 0.63	23.0 0.906	10.0 0.394	47.5 1.870	52.4 2.063	46.0 1.811	46.0 1.811
	NCG-M401x-L	M40x1.5	16.0 0.63	23.0 0.906	18.0 0.709	47.5 1.870	52.4 2.063	46.0 1.811	46.0 1.811
	NCG-M402x (cULus)	M40x1.5	19.0 0.748	28.0 1.102	10.0 0.394	47.5 1.870	52.4 2.063	46.0 1.811	46.0 1.811
	NCG-M402x-L	M40x1.5	19.0 0.748	28.0 1.102	18.0 0.709	47.5 1.870	52.4 2.063	46.0 1.811	46.0 1.811
	NCG-M403x (cULus)	M40x1.5	22.0 0.866	32.0 1.26	18.0 0.709	52.0 2.047	60.0 2.362	53.0 2.087	53.0 2.087
	NCG-M501x	M50x1.5	25.0 0.984	31.0 1.22	18.0 0.709	53.5 2.106	67.8 2.669	60.0 2.362	60.0 2.362
	NCG-M502x (cULus)	M50x1.5	30.0 1.181	38.0 1.496	18.0 0.709	53.5 2.106	67.8 2.669	60.0 2.362	60.0 2.362
	NCG-M631x	M63x1.5	29.0 1.142	35.0 1.378	18.0 0.709	53.0 2.087	72.9 2.870	65.0 2.559	65.0 2.559
	NCG-M632x (cULus)	M63x1.5	34.0 1.339	44.0 1.732	18.0 0.709	53.0 2.087	72.9 2.87	65.0 2.559	65.0 2.559
	NCG-M751x (cULus)	M75x1.5	48.0 1.89	55.0 2.165	25.0 0.984	55.0 2.165	89.0 3.504	75.0 2.953	80.0 3.15

Note for colour: x in part number - B-Black (RAL 9001), G-Grey (RAL 7001), LG-Light grey (RAL 7035)

Nylon cable glands for industrial applications

NCG Series

Dimensions

NPT thread	Part no.	NPT thread	Cable range		Nominal dimensions (mm/in)				
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
	NCG-0381x	3/8"	3.0	7.0	15.0	30.0	25.0	22.0	22.0
			0.118	0.276	0.591	1.181	0.984	0.866	0.866
	NCG-0382x (cURus)	3/8"	5.0	10.0	15.0	30.0	25.0	22.0	22.0
			0.197	0.394	0.591	1.181	0.984	0.866	0.866
	NCG-0501x	1/2"	5.0	9.0	15.0	30.0	27.0	24.0	24.0
			0.197	0.354	0.591	1.181	1.063	0.945	0.945
	NCG-0502x (cULus)	1/2"	6.0	12.0	15.0	30.0	27.0	24.0	24.0
			0.236	0.472	0.591	1.181	1.063	0.945	0.945
	NCG-0503x (cULus)	1/2"	10.0	14.0	11.0	33.5	30.9	27.0	27.0
			0.394	0.551	0.433	1.319	1.217	1.063	1.063
	NCG-0504x	1/2"	9.0	16.0	15.0	38.0	38.0	33.0	33.0
			0.354	0.63	0.591	1.496	1.496	1.299	1.299
	NCG-0505x	1/2"	13.0	18.0	15.0	38.0	38.0	33.0	33.0
			0.512	0.709	0.591	1.496	1.496	1.299	1.299
	NCG-0751x	3/4"	9.0	16.0	15.0	38.0	38.0	33.0	33.0
			0.354	0.63	0.591	1.496	1.496	1.299	1.299
	NCG-0752x (cULus)	3/4"	13.0	18.0	15.0	38.0	38.0	33.0	33.0
			0.512	0.709	0.591	1.496	1.496	1.299	1.299
	NCG-1001x	1"	12.0	20.0	18.0	42.0	47.3	42.0	42.0
			0.472	0.787	0.709	1.654	1.862	1.654	1.654
	NCG-1002x (cULus)	1"	18.0	25.0	18.0	42.0	47.3	42.0	42.0
			0.709	0.984	0.709	1.654	1.862	1.654	1.654

Dimensions

PG thread	Part no.	PG thread	Cable range		Nominal dimensions (mm/in)				
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
	NCG-PG71x (cURus)	PG07	3.0	6.5	8.0	23.0	16.9	15.0	15.0
			0.118	0.256	0.315	0.906	0.665	0.591	0.591
	NCG-PG91x (cURus)	PG09	4.0	8.0	8.0	26.5	21.9	19.0	19.0
			0.157	0.315	0.315	1.043	0.862	0.748	0.748
	NCG-PG111x	PG11	3.0	7.0	8.0	29.0	25.0	22.0	22.0
			0.118	0.276	0.315	1.142	0.984	0.866	0.866
	NCG-PG112x (cURus)	PG11	5.0	10.0	8.0	29.0	25.0	22.0	22.0
			0.197	0.394	0.315	1.142	0.984	0.866	0.866
	NCG-PG131x (cULus)	PG13	6.0	12.0	10.0	29.0	27.0	24.0	24.0
			0.236	0.472	0.394	1.142	1.063	0.945	0.945
	NCG-PG161x (cULus)	PG16	10.0	14.0	10.0	33.5	30.9	27.0	27.0
			0.394	0.551	0.394	1.319	1.217	1.063	1.063
	NCG-PG211x (cULus)	PG21	13.0	18.0	11.0	37.0	38.0	33.0	33.0
			0.512	0.709	0.433	1.457	1.496	1.299	1.299
	NCG-PG291x (cULus)	PG29	18.0	25.0	11.0	42.0	47.3	42.0	42.0
			0.709	0.984	0.433	1.654	1.862	1.654	1.654
	NCG-PG361x (cULus)	PG36	22.0	32.0	13.0	52.0	60.0	53.0	53.0
			0.866	1.26	0.512	2.047	2.362	2.087	2.087
	NCG-PG421x (cULus)	PG42	30.0	38.0	13.0	53.5	67.8	60.0	60.0
			1.181	1.496	0.512	2.106	2.669	2.362	2.362
	NCG-PG481x (cULus)	PG48	34.0	44.0	14.0	53.5	72.9	65.0	65.0
			1.339	1.732	0.551	2.106	2.87	2.559	2.559

Note for colour: x in part number - B-Black (RAL 9001), G-Grey (RAL 7001), LG-Light grey (RAL 7035)

Nylon cable glands for industrial applications

NCG Series

Dimensions

GAS thread	Part no.	GAS thread	Cable range		Nominal dimensions (mm/in)				
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
	NCG-G0251x	1/4"	3.0	6.5	10.0	23.0	16.9	15.0	15.0
			0.118	0.256	0.394	0.906	0.665	0.591	0.591
	NCG-G0381x	3/8"	5.0	10.0	11.0	30.0	25.0	22.0	22.0
			0.197	0.394	0.433	1.181	0.984	0.866	0.866
	NCG-G0501x	1/2"	6.0	12.0	10.0	30.0	27.0	24.0	24.0
			0.236	0.472	0.394	1.181	1.063	0.945	0.945
	NCG-G0502x	1/2"	10.0	14.0	11.0	30.0	30.9	27.0	27.0
			0.394	0.551	0.433	1.181	1.217	1.063	1.063
	NCG-G0751x	3/4"	13.0	18.0	12.0	38.0	38.0	33.0	33.0
			0.512	0.709	0.472	1.496	1.496	1.299	1.299
	NCG-G1001x	1"	18.0	25.0	13.0	42.0	47.3	42.0	42.0
			0.709	0.984	0.512	1.654	1.862	1.654	1.654

Note for colour: x in part number - B-Black (RAL 9001), G-Grey (RAL 7001), LG-Light grey (RAL 7035)

Nylon strain relief for industrial applications

NCGS Series



Features and benefits:

- Low profile cable glands
- Wide cable clamping range
- Corrosion resistant

NCGS Series - Nylon strain relief

Approvals & certifications



Conformity Conforms to:

EN 62444

UL514B

Temperature range

Normal Use: -20°C to +100°C (-4°F to +212°F)

Short Term: -30°C to +150°C (-22°F to +302°F)

IP Rating

IP66

IP68 (5-Bar 30 mins)

Material

Halogen free nylon construction

Chloroprene seals

Available in black, grey and light grey

Dimensions

Metric thread	Part no.	Metric thread	Cable range		Nominal dimensions (mm/in)				
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
	NCGS-M121x	M12x1.5	2.0	5.0	8.0	47.5	16.9	15.0	15.0
			0.079	0.197	0.315	1.87	0.665	0.591	0.591
	NCGS-M121x-L	M12x1.5	2.0	5.0	15.0	47.5	16.9	15.0	15.0
			0.079	0.197	0.591	1.87	0.665	0.591	0.591
	NCGS-M122x (cURus)	M12x1.5	3.0	6.5	8.0	47.5	16.9	15.0	15.0
			0.118	0.256	0.315	1.87	0.665	0.591	0.591
	NCGS-M122x-L (cURus)	M12x1.5	3.0	6.5	15.0	47.5	16.9	15.0	15.0
			0.118	0.256	0.591	1.87	0.665	0.591	0.591
	NCGS-M161x	M16x1.5	3.0	7.0	10.0	81.5	25.0	22.0	22.0
			0.118	0.276	0.394	3.209	0.984	0.866	0.866
	NCGS-M161x-L	M16x1.5	3.0	7.0	15.0	81.5	25.0	22.0	22.0
			0.118	0.276	0.591	3.209	0.984	0.866	0.866
	NCGS-M162x (cURus)	M16x1.5	5.0	10.0	10.0	81.5	25.0	22.0	22.0
			0.197	0.394	0.394	3.209	0.984	0.866	0.866
	NCGS-M162x-L	M16x1.5	5.0	10.0	15.0	81.5	25.0	22.0	22.0
			0.197	0.394	0.591	3.209	0.984	0.866	0.866
	NCGS-M201x	M20x1.5	5.0	9.0	10.0	94.0	27.0	24.0	24.0
			0.197	0.354	0.394	3.701	1.063	0.945	0.945
	NCGS-M201x-L	M20x1.5	5.0	9.0	15.0	94.0	27.0	24.0	24.0
			0.197	0.354	0.591	3.701	1.063	0.945	0.945

Note for colour: x in part number - B-Black (RAL 9001), G-Grey (RAL 7001), LG-Light grey (RAL 7035)

Nylon strain relief for industrial applications

NCGS Series

Dimensions

Metric thread	Part no.	Metric thread	Cable range		Nominal dimensions (mm/in)				
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
	NCGS-M202x (cULus)	M20x1.5	6.0	12.0	10.0	94.0	27.0	24.0	24.0
			0.236	0.472	0.394	3.701	1.063	0.945	0.945
	NCGS-M202x-L	M20x1.5	6.0	12.0	15.0	94.0	27.0	24.0	24.0
			0.236	0.472	0.591	3.701	1.063	0.945	0.945
	NCGS-M203x (cULus)	M20x1.5	10.0	14.0	10.0	106.0	31.0	27.0	27.0
			0.394	0.551	0.394	4.173	1.22	1.063	1.063
	NCGS-M203x-L	M20x1.5	10.0	14.0	15.0	106.0	31.0	27.0	27.0
			0.394	0.551	0.591	4.173	1.22	1.063	1.063
	NCGS-M251x	M25x1.5	9.0	16.0	10.0	117.5	38.0	33.0	33.0
			0.354	0.63	0.394	4.626	1.496	1.299	1.299
	NCGS-M251x-L	M25x1.5	9.0	16.0	15.0	117.5	38.0	33.0	33.0
			0.354	0.63	0.591	4.626	1.496	1.299	1.299
	NCGS-M252x (cULus)	M25x1.5	13.0	18.0	10.0	117.5	38.0	33.0	33.0
			0.512	0.709	0.394	4.626	1.496	1.299	1.299
	NCGS-M252x-L	M25x1.5	13.0	18.0	15.0	117.5	38.0	33.0	33.0
			0.512	0.709	0.591	4.626	1.496	1.299	1.299

Dimensions

NPT thread	Part no.	NPT thread	Cable range		Nominal dimensions (mm/in)				
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
	NCGS-0381x	3/8"	3.0	7.0	15.0	81.5	25.0	22.0	22.0
			0.118	0.276	0.591	3.209	0.984	0.866	0.866
	NCGS-0382x (cURus)	3/8"	5.0	10.0	15.0	81.5	25.0	22.0	22.0
			0.197	0.394	0.591	3.209	0.984	0.866	0.866
	NCGS-0501x	1/2"	5.0	9.0	15.0	93.0	27.0	24.0	24.0
			0.197	0.354	0.591	3.661	1.063	0.945	0.945
	NCGS-0502x (cULus)	1/2"	6.0	12.0	15.0	93.0	27.0	24.0	24.0
			0.236	0.472	0.591	3.661	1.063	0.945	0.945
	NCGS-0503x (cULus)	1/2"	10.0	14.0	15.0	106.0	31.0	27.0	27.0
			0.394	0.551	0.591	4.173	1.22	1.063	1.063
	NCGS-0504x	1/2"	9.0	16.0	15.0	117.9	38.0	33.0	33.0
			0.354	0.63	0.591	4.642	1.496	1.299	1.299
	NCGS-0505x	1/2"	13.0	18.0	15.0	117.5	38.0	33.0	33.0
			0.512	0.709	0.591	4.626	1.496	1.299	1.299
	NCGS-0751x	3/4"	9.0	16.0	15.0	117.5	38.0	33.0	33.0
			0.354	0.63	0.591	4.626	1.496	1.299	1.299
	NCGS-0752x (cULus)	3/4"	13.0	18.0	15.0	117.5	38.0	33.0	33.0
			0.512	0.709	0.591	4.626	1.496	1.299	1.299

Note for colour: x in part number - B-Black (RAL 9001), G-Grey (RAL 7001), LG-Light grey (RAL 7035)

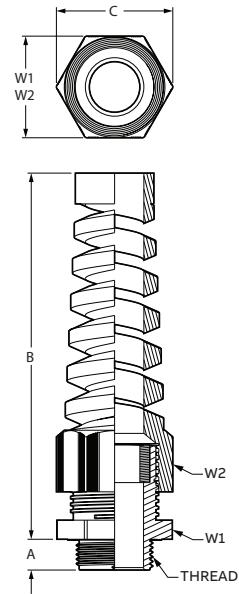
Nylon strain relief for industrial applications

NCGS Series

Dimensions

PG thread	Part no.	PG thread	Cable range		Nominal dimensions (mm/in)				
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
	NCGS-PG71x (cURus)	PG07	3.0	6.5	8.0	57.0	16.9	15.0	15.0
			0.118	0.255	0.315	2.244	0.665	0.591	0.591
	NCGS-PG91x (cURus)	PG09	4.0	8.0	8.0	69.5	21.8	19.0	19.0
			0.157	0.315	0.315	2.736	0.858	0.748	0.748
	NCGS-PG112x (cURus)	PG11	5.0	10.0	8.0	81.5	25.3	22.0	22.0
			0.197	0.394	0.315	3.212	0.996	0.866	0.866
	NCGS-PG131x (cULus)	PG13	6.0	12.0	10.0	93.0	27.0	24.0	24.0
			0.236	0.472	0.394	3.661	1.063	0.945	0.945
	NCGS-PG161x (cULus)	PG16	10.0	14.0	10.0	106.0	31.1	27.0	27.0
			0.394	0.551	0.394	4.173	1.224	1.063	1.063
	NCGS-PG211x (cULus)	PG21	13.0	18.0	11.0	117.5	38.0	33.0	33.0
			0.512	0.709	0.433	4.626	1.496	1.299	1.299

Note for colour: x in part number - B-Black (RAL 9001), G-Grey (RAL 7001), LG-Light grey (RAL 7035)



General purpose nylon cable glands

NSG Series



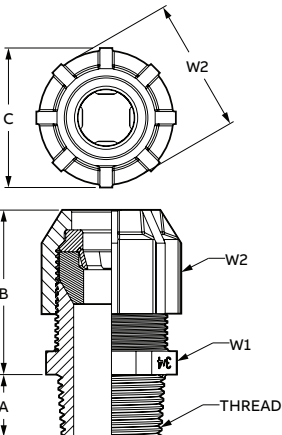
Features and benefits:

- Large cable clamping range
- Liquid tight mechanical grip
- Full length bushing seal, protects cable
- Corrosion resistant

NSG Series - Ranger® nylon cable gland

Approvals & certifications		Conformity	Temperature range	
 		UL514B	-34°C to +105°C (-29°F to +221°F)	
		CSA 22.2-18		
		ANSI C33.84		
		NFPA 70 (ANSI)		
		CG293 (US Coastguard)		
			IP Rating	Material
			Type 4X or 6	Halogen free nylon construction
			(with 5262 Series sealing rings)	Thermoplastic elastomer sealing
			Wet and dry locations	Nylon retaining ring
			Fire	
			NFPA 70 (ANSI)	

Dimensions

NPT thread	Part no.	NPT thread	Cable range		Nominal dimensions (mm/in)				
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
	2920NM	1/2"	3.18	9.53	15.49	38.48	30.71	25.91	29.31
			0.125	0.375	0.610	1.515	1.209	1.020	1.154
	2921NM	1/2"	7.87	14.22	15.49	38.48	30.71	25.91	29.31
			0.310	0.560	0.610	1.515	1.209	1.020	1.154
	2922NM	1/2"	12.70	19.05	15.49	39.27	35.61	30.96	34.24
			0.500	0.750	0.610	1.546	1.402	1.219	1.348
	2930NM	3/4"	3.18	9.53	15.88	39.70	35.61	30.96	34.24
			0.125	0.375	35.718	1.563	1.402	1.219	1.348
	2931NM	3/4"	7.87	14.22	15.88	39.70	35.61	30.96	34.24
			0.310	0.560	35.718	1.563	1.402	1.219	1.348
	2932NM	3/4"	12.70	19.05	15.88	39.70	35.61	30.96	34.24
			0.500	0.750	35.718	1.563	1.402	1.219	1.348
	2940NM	1"	7.87	14.22	17.40	42.14	41.10	37.69	34.24
			0.310	0.560	0.685	1.659	1.618	1.484	1.348
	2941NM	1"	12.70	19.05	17.40	42.14	41.10	37.69	34.24
			0.500	0.750	0.685	1.659	1.618	1.484	1.348
	2942NM	1"	17.78	24.13	17.40	42.93	42.34	38.10	41.00
			0.700	0.950	0.685	1.690	1.667	1.500	1.614

General purpose 90° elbow nylon cable glands

NSG-90 Series



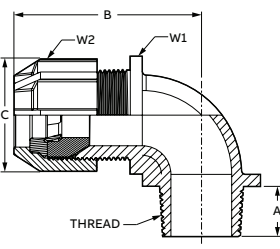
Features and benefits:

- Large cable clamping range
- Liquid tight mechanical grip
- Full length bushing seal, protects cable
- Corrosion resistant
- Clamping range

NSG-90 Series - Ranger® nylon cable gland

Approvals & certifications 	Conformity	Temperature range	
	Conforms to:	-34°C to +105°C (-29°F to +221°F)	
	UL514B		
	CSA 22.2-18		
	ANSI C33.84	IP Rating	Material
	NFPA 70 (ANSI)	Type 4X or 6 (with 5262 Series sealing rings)	Halogen free nylon construction
CG293 (US Coastguard)	Wet and dry locations		
	Fire		
	NFPA 70 (ANSI)		

Dimensions

NPT thread	Part no.	NPT thread	Cable range		Nominal dimensions (mm/in)				
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
	4960NM	1/2"	3.18	9.53	15.49	55.37	30.71	27.18	29.31
			0.125	0.375	0.610	2.180	1.209	1.070	1.154
	4961NM	1/2"	7.87	14.22	15.49	55.37	30.71	27.18	29.31
			0.310	0.560	0.610	2.180	1.209	1.070	1.154
	4970NM	3/4"	3.18	9.53	15.88	58.75	35.61	33.07	34.24
			0.125	0.375	0.625	2.313	1.402	1.302	1.348
	4971NM	3/4"	7.87	14.22	15.88	58.75	35.61	33.07	34.24
			0.310	0.560	0.625	2.313	1.402	1.302	1.348
	4972NM	3/4"	12.70	19.05	15.88	58.75	35.61	33.07	34.24
			0.500	0.750	0.625	2.313	1.402	1.302	1.348

Black Beauty® general purpose nylon cable glands

NBBG-G Series



Features and benefits:

- Large cable clamping range
- Liquid tight mechanical grip
- Full length bushing seal, protects cable
- Extended pull out performance
- Corrosion resistant

NBBG-G Series - Black Beauty® general purpose nylon cable gland

Approvals & certifications



Conformity Conforms to:

UL514B

CSA C22.2-18.3

NFPA 70 (ANSI) / CSA C22.1

CG293 (US Coastguard)

Temperature range

-34°C to +105°C (-29°F to +221°F)

IP Rating

Type 4X

(with 5262 Series sealing rings)

(Wet and dry locations)

Material

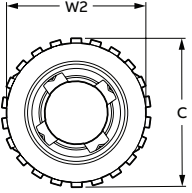
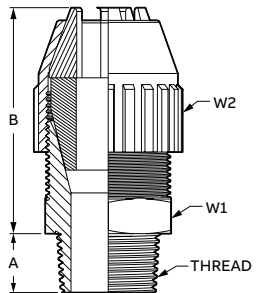
Halogen free nylon construction

Neoprene or TPV sealing ring

Fire

NFPA 70 (ANSI)

Dimensions

NPT thread	Part no.	NPT thread	Cable range		Nominal dimensions (mm/in)				
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
	2671	3/8"	3.18	6.99	11.76	39.04	22.86	19.81	21.34
			0.125	0.275	0.463	1.537	0.900	0.780	0.840
	2690	1/2"	3.18	6.99	15.37	41.78	29.34	25.40	21.34
			0.125	0.275	0.605	1.645	1.155	1.000	0.840
	2672	1/2"	6.35	10.16	15.37	50.52	31.98	27.79	30.35
			0.250	0.400	0.605	1.989	1.259	1.094	1.195
	2673	1/2"	10.16	14.22	15.37	50.52	31.98	27.79	30.35
			0.400	0.560	0.605	1.989	1.259	1.094	1.195
	2691	1/2"	14.22	17.53	15.37	60.83	38.71	33.53	34.54
			0.560	0.690	0.605	2.395	1.524	1.320	1.360
	2692	1/2"	16.76	19.81	15.37	60.83	38.71	33.53	34.54
			0.660	0.780	0.605	2.395	1.524	1.320	1.360
	2693	3/4"	6.35	10.16	15.67	52.60	35.79	30.99	30.35
			0.250	0.400	0.617	2.071	1.409	1.220	1.195
	2694	3/4"	10.16	14.22	15.67	52.60	35.79	30.99	30.35
			0.400	0.560	0.617	2.071	1.409	1.220	1.195
	2674	3/4"	14.22	17.53	15.67	60.53	38.71	33.53	34.54
			0.560	0.690	0.617	2.283	1.524	1.320	1.360
	2675	3/4"	16.76	19.81	15.67	60.53	38.71	33.53	34.54
			0.660	0.780	0.617	2.283	1.524	1.320	1.360
	2696	3/4"	19.56	22.73	15.67	65.30	47.85	41.66	45.72
			0.770	0.895	0.617	2.571	1.884	1.640	1.800
	2676	1"	16.76	19.81	19.56	64.59	47.85	40.64	45.72
			0.660	0.780	0.770	2.543	1.884	1.600	1.800

Black Beauty® general purpose nylon cable glands

NBBG-G Series

Dimensions

NPT thread	Part no.	NPT thread	Cable range		Nominal dimensions (mm/in)				
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
	2677	1"	19.56	22.73	19.56	69.34	47.85	40.64	45.72
			0.770	0.895	0.770	2.730	1.884	1.600	1.800
	2678	1"	22.10	25.91	19.56	69.34	47.85	40.64	45.72
			0.870	1.020	0.770	2.730	1.884	1.600	1.800
	2699	1"	22.61	27.69	19.56	83.82	65.38	56.77	62.99
			0.890	1.090	0.770	3.300	2.574	2.235	2.480
	2702	1 1/4"	22.61	27.69	20.17	63.98	65.38	56.39	62.99
			0.890	1.090	0.794	2.519	2.574	2.220	2.480
	2703	1 1/4"	27.43	32.51	20.17	81.43	65.38	56.39	62.99
			1.080	1.280	0.794	3.206	2.574	2.220	2.480
	2704	1 1/4"	32.26	37.34	20.17	81.43	65.38	56.39	62.99
			1.270	1.470	0.794	3.206	2.574	2.220	2.480
	2705TB	1 1/2"	22.61	29.21	20.57	85.80	76.28	66.68	71.63
			0.890	1.150	0.810	3.378	3.003	2.625	2.820
	2706	1 1/2"	28.96	35.56	20.57	88.98	76.99	66.68	71.63
			1.140	1.400	0.810	3.503	3.031	2.625	2.820
	2707	1 1/2"	35.31	41.91	20.57	88.98	76.99	66.68	71.63
			1.390	1.650	0.810	3.503	3.031	2.625	2.820
	2708	2"	30.23	38.86	21.41	107.98	98.98	79.38	85.73
			1.190	1.530	0.843	4.251	3.897	3.125	3.375
	2709	2"	38.61	47.24	21.41	103.20	98.98	79.38	85.73
			1.520	1.860	0.843	4.063	3.897	3.125	3.375
	2710	2"	46.99	55.63	21.41	103.20	98.98	79.38	85.73
			1.850	2.190	0.843	4.063	3.897	3.125	3.375

Black Beauty® 90° elbow general purpose nylon cable glands

NBBG -R90 Series



Features and benefits:

- Large cable clamping range
- Liquid tight mechanical grip
- Full length bushing seal, protects cable
- Extended pull out performance
- Corrosion resistant

NBBG-R90 Series - Black Beauty® 90° elbow nylon cable gland

Approvals & certifications



Conformity Conforms to:

UL514B

CSA C22.2-18.3

NFPA 70 (ANSI) / CSA C22.1

CG293 (US Coastguard)

Temperature range

-34°C to +105°C (-29°F to +221°F)

IP Rating

Type 4X

(with 5262 Series sealing rings)

(Wet and dry locations)

Material

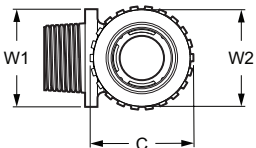
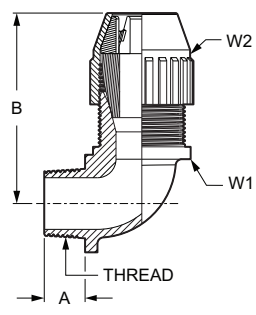
Halogen free nylon construction

Neoprene or TPV sealing ring

Fire

NFPA 70 (ANSI)

Dimensions

NPT thread	Part no.	NPT thread	Cable range		Nominal dimensions (mm/in)				
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
	2680	3/8"	3.18	6.99	11.76	45.72	22.86	22.35	21.34
			0.125	0.275	0.463	1.800	0.900	0.880	0.840
	2681	1/2"	6.35	10.16	15.37	63.50	31.98	30.48	30.35
			0.250	0.400	0.605	2.500	1.259	1.200	1.195
	2682	1/2"	10.16	14.22	15.37	63.50	31.98	30.48	30.35
			0.400	0.560	0.605	2.500	1.259	1.200	1.195
	2683	3/4"	14.22	17.53	15.67	71.12	37.47	37.47	37.08
			0.560	0.690	0.617	2.800	1.475	1.475	1.460
	2684	3/4"	16.76	19.81	15.67	71.12	37.47	37.47	37.08
			0.660	0.780	0.617	2.800	1.475	1.475	1.460
	2688	1"	14.22	17.53	19.56	76.20	47.85	46.99	45.72
			0.560	0.690	0.770	3.000	1.884	1.850	1.800
	2685	3/4"	16.76	19.81	1.800	81.28	47.85	46.99	45.72
			0.660	0.780	0.617	3.200	1.884	1.850	1.800
	2686	3/4"	19.56	22.73	19.56	81.28	47.85	46.99	45.72
			0.770	0.895	0.770	3.200	1.884	1.850	1.800
	2687	1"	22.10	25.91	19.56	81.28	47.85	46.99	45.72
			0.870	1.020	0.770	3.200	1.884	1.850	1.800

Brass, general purpose cable glands

BCG Series



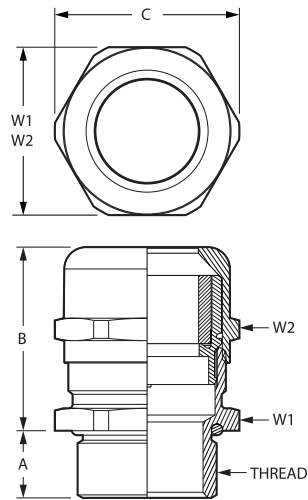
Features and benefits:

- Low profile cable glands
- Wide cable clamping range
- Good corrosion resistance

BCG Series - Brass cable gland

Approvals & certifications		Conformity		Temperature range	
  		EN 62444		Normal use: -20°C to +100°C (-4°F to +212°F)	
		UL514B		Short Term: -30°C to +150°C (-22°F to +302°F)	

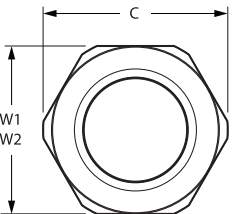
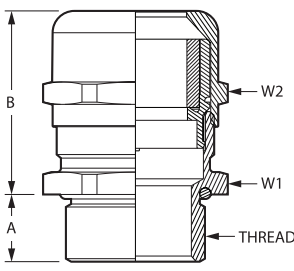
Dimensions

Metric thread	Part no.	Metric thread	Cable size		Nominal dimensions (mm/in)				
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
	BCG-M121	M12x1.5	2.0	5.0	6.0	22.0	15.5	14.0	14.0
			0.079	0.197	0.236	0.866	0.610	0.551	0.551
	BCG-M122 (cURus)	M12x1.5	3.0	6.5	6.0	22.0	15.5	14.0	14.0
			0.118	0.256	0.236	0.866	0.610	0.551	0.551
	BCG-M122-L	M12x1.5	3.0	6.5	12.0	22.0	15.5	14.0	14.0
			0.118	0.256	0.472	0.866	0.610	0.551	0.551
	BCG-M161	M16x1.5	2.0	6.0	7.0	23.0	20.0	18.0	17.0
			0.079	0.236	0.276	0.906	0.787	0.709	0.669
	BCG-M161-L	M16x1.5	2.0	6.0	12.0	23.0	20.0	18.0	17.0
			0.079	0.236	0.472	0.906	0.787	0.709	0.669
	BCG-M162 (cURus)	M16x1.5	4.0	8.0	7.0	23.0	20.0	18.0	17.0
			0.157	0.315	0.276	0.906	0.787	0.709	0.669
	BCG-M162-L	M16x1.5	4.0	8.0	12.0	23.0	20.0	18.0	17.0
			0.157	0.315	0.472	0.906	0.787	0.709	0.669
	BCG-M163 (cURus)	M16x1.5	5.0	10.0	7.0	28.5	22.0	20.0	20.0
			0.197	0.394	0.276	1.122	0.866	0.787	0.787
	BCG-M163-L (cURus)	M16x1.5	5.0	10.0	12.0	28.5	22.0	20.0	20.0
			0.197	0.394	0.472	1.122	0.866	0.787	0.787
	BCG-M201	M20x1.5	5.0	9.0	8.0	26.0	24.5	22.0	22.0
			0.197	0.354	0.315	1.024	0.965	0.866	0.866
	BCG-M201-L	M20x1.5	5.0	9.0	12.0	26.0	24.5	22.0	22.0
			0.197	0.354	0.472	1.024	0.965	0.866	0.866
	BCG-M202 (cULus)	M20x1.5	6.0	12.0	8.0	26.5	24.5	22.0	22.0
			0.236	0.472	0.315	1.043	0.965	0.866	0.866

Brass cable glands (general purpose)

BCG Series

Dimensions

Metric thread	Part no.	Metric thread	Cable range		Nominal dimensions (mm/in)				
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
  	BCG-M202-L (cULus)	M20x1.5	6.0	12.0	12.0	26.0	24.5	22.0	22.0
			0.236	0.472	0.472	1.024	0.965	0.866	0.866
	BCG-M203 (cULus)	M20x1.5	10.0	14.0	8.0	28.0	26.8	24.0	24.0
			0.394	0.551	0.315	1.102	1.055	0.945	0.945
	BCG-M203-L	M20x1.5	10.0	14.0	12.0	28.0	26.8	24.0	24.0
			0.394	0.551	0.472	1.102	1.055	0.945	0.945
	BCG-M251	M25x1.5	7.0	12.0	8.0	28.0	29.8	27.0	24.0
			0.276	0.472	0.315	1.102	1.173	1.063	0.945
	BCG-M251-L	M25x1.5	7.0	12.0	12.0	28.0	29.8	27.0	24.0
			0.276	0.472	0.472	1.102	1.173	1.063	0.945
	BCG-M252	M25x1.5	9.0	16.0	8.0	33.0	33.0	30.0	30.0
			0.354	0.630	0.315	1.299	1.299	1.181	1.181
	BCG-M252-L	M25x1.5	9.0	16.0	12.0	33.0	33.0	30.0	30.0
			0.354	0.630	0.472	1.299	1.299	1.181	1.181
	BCG-M253 (cULus)	M25x1.5	10.0	14.0	8.0	28.0	29.8	27.0	24.0
			0.394	0.551	0.315	1.102	1.173	1.063	0.945
	BCG-M253-L	M25x1.5	10.0	14.0	12.0	28.0	29.8	27.0	24.0
			0.394	0.551	0.472	1.102	1.173	1.063	0.945
	BCG-M254 (cULus)	M25x1.5	13.0	18.0	8.0	33.0	32.0	30.0	30.0
			0.512	0.709	0.315	1.299	1.260	1.181	1.181
	BCG-M254-L	M25x1.5	13.0	18.0	12.0	33.0	32.0	30.0	30.0
			0.512	0.709	0.472	1.299	1.260	1.181	1.181
	BCG-M321	M32x1.5	9.0	16.0	9.0	33.0	37.5	34.0	30.0
			0.354	0.630	0.354	1.299	1.476	1.339	1.181
	BCG-M321-L	M32x1.5	9.0	16.0	15.0	33.0	37.5	34.0	30.0
			0.354	0.630	0.591	1.299	1.476	1.339	1.181
	BCG-M322	M32x1.5	12.0	20.0	9.0	44.0	44.5	40.0	40.0
			0.472	0.787	0.354	1.732	1.752	1.575	1.575
	BCG-M322-L	M32x1.5	12.0	20.0	15.0	44.0	44.5	40.0	40.0
			0.472	0.787	0.591	1.732	1.752	1.575	1.575
	BCG-M323 (cULus)	M32x1.5	13.0	18.0	9.0	33.0	37.5	34.0	30.0
			0.512	0.709	0.354	1.299	1.476	1.339	1.181
	BCG-M323-L	M32x1.5	13.0	18.0	15.0	33.0	37.5	34.0	30.0
			0.512	0.709	0.591	1.299	1.476	1.339	1.181
	BCG-M324 (cULus)	M32x1.5	15.0	21.0	8.0	36.0	37.0	34.0	34.0
			0.591	0.827	0.315	1.417	1.457	1.339	1.339
	BCG-M324-L (cULus)	M32x1.5	15.0	21.0	15.0	36.0	37.0	34.0	34.0
			0.591	0.827	0.591	1.417	1.457	1.339	1.339
	BCG-M325 (cULus)	M32x1.5	18.0	25.0	9.0	44.0	44.5	40.0	40.0
			0.709	0.984	0.354	1.732	1.752	1.575	1.575
	BCG-M325-L	M32x1.5	18.0	25.0	15.0	44.0	44.5	40.0	40.0
			0.709	0.984	0.591	1.732	1.752	1.575	1.575
	BCG-M401	M40x1.5	12.0	20.0	9.0	38.5	48.5	43.0	40.0
			0.472	0.787	0.354	1.516	1.909	1.693	1.575
	BCG-M401-L	M40x1.5	12.0	20.0	15.0	38.5	48.5	43.0	40.0
			0.472	0.787	0.591	1.516	1.909	1.693	1.575
	BCG-M402	M40x1.5	16.0	23.0	9.0	43.5	48.4	43.0	43.0
			0.630	0.906	0.354	1.713	1.906	1.693	1.693
	BCG-M402-L	M40x1.5	16.0	23.0	15.0	43.5	48.4	43.0	43.0
			0.630	0.906	0.591	1.713	1.906	1.693	1.693

Brass cable glands (general purpose)

BCG Series

Dimensions

Metric thread	Part no.	Metric thread	Cable size		Nominal dimensions (mm/in)				
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
	BCG-M403 (cULus)	M40x1.5	19.0	28.0	9.0	43.5	48.4	43.0	43.0
			0.748	1.102	0.354	1.713	1.906	1.693	1.693
	BCG-M403-L (cULus)	M40x1.5	19.0	28.0	15.0	43.5	48.4	43.0	43.0
			0.748	1.102	0.591	1.713	1.906	1.693	1.693
	BCG-M404 (cULus)	M40x1.5	22.0	32.0	9.0	52.5	55.5	50.0	50.0
			0.866	1.260	0.354	2.067	2.185	1.969	1.969
	BCG-M404-L	M40x1.5	22.0	32.0	15.0	52.5	55.5	50.0	50.0
			0.866	1.260	0.591	2.067	2.185	1.969	1.969
	BCG-M501	M50x1.5	20.0	26.0	9.0	48.0	61.0	55.0	50.0
			0.787	1.024	0.354	1.890	2.402	2.165	1.969
	BCG-M501-L	M50x1.5	20.0	26.0	15.0	48.0	61.0	55.0	50.0
			0.787	1.024	0.591	1.890	2.402	2.165	1.969
	BCG-M502 (cULus)	M50x1.5	22.0	32.0	9.0	48.0	61.0	55.0	50.0
			0.866	1.260	0.354	1.890	2.402	2.165	1.969
	BCG-M502-L	M50x1.5	22.0	32.0	15.0	48.0	61.0	55.0	50.0
			0.866	1.260	0.591	1.890	2.402	2.165	1.969
	BCG-M503 (cULus)	M50x1.5	27.0	38.0	9.0	52.0	64.0	58.0	58.0
			1.063	1.496	0.354	2.047	2.520	2.283	2.283
	BCG-M503-L (cULus)	M50x1.5	27.0	38.0	15.0	52.0	64.0	58.0	58.0
			1.063	1.496	0.591	2.047	2.520	2.283	2.283
	BCG-M504	M50x1.5	34.0	44.0	9.0	52.8	75.0	68.0	64.0
			1.339	1.732	0.354	2.079	2.953	2.677	2.520
	BCG-M504-L	M50x1.5	34.0	44.0	15.0	52.8	75.0	68.0	64.0
			1.339	1.732	0.591	2.079	2.953	2.677	2.520
	BCG-M631	M63x1.5	29.0	35.0	10.0	54.0	75.0	68.0	64.0
			1.142	1.378	0.394	2.126	2.953	2.677	2.520
	BCG-M631-L	M63x1.5	29.0	35.0	18.0	54.0	75.0	68.0	64.0
			1.142	1.378	0.709	2.126	2.953	2.677	2.520
	BCG-M632 (cULus)	M63x1.5	34.0	44.0	10.0	54.0	75.0	68.0	64.0
			1.339	1.732	0.394	2.126	2.953	2.677	2.520
	BCG-M632-L (cULus)	M63x1.5	34.0	44.0	18.0	53.0	75.0	68.0	64.0
			1.339	1.732	0.709	2.087	2.953	2.677	2.520
	BCG-M633	M63x1.5	37.0	53.0	10.0	51.0	83.0	75.0	75.0
			1.457	2.087	0.394	2.008	3.268	2.953	2.953
	BCG-M633-L	M63x1.5	37.0	53.0	18.0	51.0	83.0	75.0	75.0
			1.457	2.087	0.709	2.008	3.268	2.953	2.953

Dimensions

NPT thread	Part no.	NPT thread	Cable size		Nominal dimensions (mm/in)				
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
	BCG-0381	3/8" NPT	2.0	6.0	11.5	23.0	21.0	19.0	17.0
			0.079	0.236	0.453	0.906	0.827	0.748	0.669
	BCG-0382	3/8" NPT	5.0	10.0	11.5	29.5	22.0	20.0	20.0
			0.197	0.394	0.453	1.161	0.866	0.787	0.787
	BCG-0501	1/2" NPT	5.0	9.0	13.0	25.5	24.5	22.0	22.0
			0.197	0.354	0.512	1.004	0.965	0.866	0.866

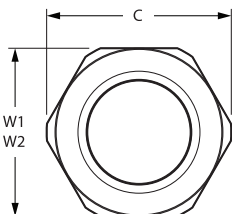
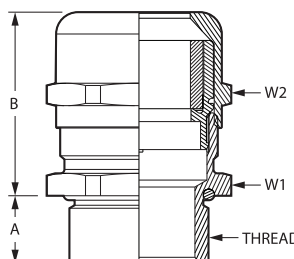
Brass cable glands (general purpose)

BCG Series

Dimensions

NPT thread	Part no.	NPT thread	Cable size		Nominal dimensions (mm/in)				
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
	BCG-0502 (cULus)	1/2" NPT	6.0 0.236	12.0 0.472	13.0 0.512	25.5 1.004	24.5 0.965	22.0 0.866	22.0 0.866
	BCG-0503	1/2" NPT	10.0 0.394	14.0 0.551	13.0 0.512	28.0 1.102	26.8 1.055	24.0 0.945	24.0 0.945
	BCG-0751	3/4" NPT	9.0 0.354	16.0 0.630	13.0 0.512	36.0 1.417	33.0 1.299	30.0 1.181	30.0 1.181
	BCG-0752 (cULus)	3/4" NPT	13.0 0.512	18.0 0.709	13.0 0.512	36.0 1.417	33.0 1.299	30.0 1.181	30.0 1.181
	BCG-1001	1" NPT	12.0 0.472	20.0 0.787	13.0 0.512	43.0 1.693	48.5 1.909	43.0 1.693	40.0 1.575
	BCG-1002 (cULus)	1" NPT	18.0 0.709	25.0 0.984	13.0 0.512	43.0 1.693	48.5 1.909	43.0 1.693	40.0 1.575

Dimensions

PG thread	Part no.	PG thread	Cable range		Nominal dimensions (mm/in)				
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
  	BCG-PG71	PG07	2.0 0.079	5.0 0.197	6.0 0.236	22.0 0.866	15.5 0.610	14.0 0.551	14.0 0.551
	BCG-PG71-L	PG07	2.0 0.079	5.0 0.197	10.0 0.394	22.0 0.866	15.5 0.610	14.0 0.551	14.0 0.551
	BCG-PG72 (cURus)	PG07	3.0 0.118	6.5 0.256	6.0 0.236	22.0 0.866	15.5 0.610	14.0 0.551	14.0 0.551
	BCG-PG72-L (cURus)	PG07	3.0 0.118	6.5 0.256	10.0 0.394	22.0 0.866	15.5 0.610	14.0 0.551	14.0 0.551
	BCG-PG91	PG09	2.0 0.079	6.0 0.236	6.0 0.236	23.5 0.925	18.9 0.744	17.0 0.669	17.0 0.669
	BCG-PG91-L	PG09	2.0 0.079	6.0 0.236	10.0 0.394	23.5 0.925	18.9 0.744	17.0 0.669	17.0 0.669
	BCG-PG92 (cURus)	PG09	4.0 0.157	8.0 0.315	6.0 0.236	23.5 0.925	18.9 0.744	17.0 0.669	17.0 0.669
	BCG-PG92-L (cURus)	PG09	4.0 0.157	8.0 0.315	10.0 0.394	23.5 0.925	18.9 0.744	17.0 0.669	17.0 0.669
	BCG-PG111	PG11	3.0 0.118	7.0 0.276	6.0 0.236	26.0 1.024	22.0 0.866	20.0 0.787	20.0 0.787
	BCG-PG111-L	PG11	3.0 0.118	7.0 0.276	10.0 0.394	26.0 1.024	22.0 0.866	20.0 0.787	20.0 0.787
	BCG-PG112 (cURus)	PG11	5.0 0.197	10.0 0.394	6.0 0.236	26.0 1.024	22.0 0.866	20.0 0.787	20.0 0.787
	BCG-PG112-L (cURus)	PG11	5.0 0.197	10.0 0.394	10.0 0.394	26.0 1.024	22.0 0.866	20.0 0.787	20.0 0.787
	BCG-PG131	PG13.5	5.0 0.197	9.0 0.354	6.5 0.256	24.5 0.965	24.5 0.965	22.0 0.866	22.0 0.866
	BCG-PG131-L	PG13.5	5.0 0.197	9.0 0.354	10.0 0.394	24.5 0.965	24.5 0.965	22.0 0.866	22.0 0.866
	BCG-PG132 (cULus)	PG13.5	6.0 0.236	12.0 0.472	6.5 0.256	24.5 0.965	24.5 0.965	22.0 0.866	22.0 0.866

Brass cable glands (general purpose)

BCG Series

Dimensions

PG thread	Part no.	PG thread	Cable size		Nominal dimensions (mm/in)				
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
	BCG-PG132-L (cULus)	PG13.5	6.0	12.0	10.0	24.5	24.5	22.0	22.0
			0.236	0.472	0.394	0.965	0.965	0.866	0.866
	BCG-PG161	PG16	7.0	12.0	6.5	28.0	26.5	24.0	24.0
			0.276	0.472	0.256	1.102	1.043	0.945	0.945
	BCG-PG161-L	PG16	7.0	12.0	10.0	28.0	26.5	24.0	24.0
			0.276	0.472	0.394	1.102	1.043	0.945	0.945
	BCG-PG162 (cULus)	PG16	10.0	14.0	6.5	28.0	26.5	24.0	24.0
			0.394	0.551	0.256	1.102	1.043	0.945	0.945
	BCG-PG162-L (cULus)	PG16	10.0	14.0	10.0	28.0	26.5	24.0	24.0
			0.394	0.551	0.394	1.102	1.043	0.945	0.945
	BCG-PG211	PG21	9.0	16.0	7.2	33.0	33.0	30.0	30.0
			0.354	0.630	0.283	1.299	1.299	1.181	1.181
	BCG-PG211-L	PG21	9.0	16.0	10.0	33.0	33.0	30.0	30.0
			0.354	0.630	0.394	1.299	1.299	1.181	1.181
	BCG-PG212 (cULus)	PG21	13.0	18.0	7.2	33.0	33.0	30.0	30.0
			0.512	0.709	0.283	1.299	1.299	1.181	1.181
	BCG-PG212-L (cULus)	PG21	13.0	18.0	12.0	33.0	33.0	30.0	30.0
			0.512	0.709	0.472	1.299	1.299	1.181	1.181
	BCG-PG291	PG29	12.0	20.0	8.0	38.5	44.5	40.0	40.0
			0.472	0.787	0.315	1.516	1.752	1.575	1.575
	BCG-PG291-L	PG29	12.0	20.0	12.0	38.5	44.5	40.0	40.0
			0.472	0.787	0.472	1.516	1.752	1.575	1.575
	BCG-PG292 (cULus)	PG29	18.0	25.0	8.0	38.5	44.5	40.0	40.0
			0.709	0.984	0.315	1.516	1.752	1.575	1.575
	BCG-PG292-L (cULus)	PG29	18.0	25.0	12.0	38.5	44.5	40.0	40.0
			0.709	0.984	0.472	1.516	1.752	1.575	1.575
	BCG-PG361	PG36	20.0	26.0	9.0	48.0	55.5	50.0	50.0
			0.787	1.024	0.354	1.890	2.185	1.969	1.969
	BCG-PG361-L	PG36	20.0	26.0	14.0	48.0	55.5	50.0	50.0
			0.787	1.024	0.551	1.890	2.185	1.969	1.969
	BCG-PG362 (cULus)	PG36	22.0	32.0	9.0	48.0	55.5	50.0	50.0
			0.866	1.260	0.354	1.890	2.185	1.969	1.969
	BCG-PG362-L (cULus)	PG36	22.0	32.0	14.0	48.0	55.5	50.0	50.0
			0.866	1.260	0.551	1.890	2.185	1.969	1.969
	BCG-PG421	PG42	25.0	31.0	12.0	49.0	64.0	58.0	58.0
			0.984	1.220	0.472	1.929	2.520	2.283	2.283
	BCG-PG421-L	PG42	25.0	31.0	16.0	49.0	64.0	58.0	58.0
			0.984	1.220	0.630	1.929	2.520	2.283	2.283
	BCG-PG422 (cULus)	PG42	30.0	38.0	12.0	49.0	64.0	58.0	58.0
			1.181	1.496	0.472	1.929	2.520	2.283	2.283
	BCG-PG422-L (cULus)	PG42	30.0	38.0	16.0	49.0	64.0	58.0	58.0
			1.181	1.496	0.630	1.929	2.520	2.283	2.283
	BCG-PG481	PG48	29.0	35.0	14.0	52.5	70.0	64.0	64.0
			1.142	1.378	0.551	2.067	2.756	2.520	2.520
	BCG-PG481-L	PG48	29.0	35.0	18.0	52.5	70.0	64.0	64.0
			1.142	1.378	0.709	2.067	2.756	2.520	2.520
	BCG-PG482 (cULus)	PG48	34.0	44.0	14.0	52.5	70.0	64.0	64.0
			1.339	1.732	0.551	2.067	2.756	2.520	2.520
	BCG-PG482-L (cULus)	PG48	34.0	44.0	18.0	52.5	70.0	64.0	64.0
			1.339	1.732	0.709	2.067	2.756	2.520	2.520

316L Stainless steel cable glands (general purpose)

SCG Series



Features and benefits:

- Low profile compact cable glands
- Wide cable clamping range
- Excellent corrosion resistance
- Suitable for wet locations

SCG Series - 316L Stainless steel cable gland

Approvals & certifications



Conformity

Conforms to:

EN 62444

UL514B /CSA C22.2 No 18.3
(see table for details)

Temperature range

Operating range: -20°C to +100°C (-4°F to +212°F)

Short Term: -30°C to +150°C (-22°F to +302°F)

IP Rating

IP66

IP68 (5-Bar 30 mins)

NEMA 4

Material

Stainless steel 316L construction

Chloroprene seals

Dimensions

Metric thread	Part no.	Metric thread	Cable size		Nominal dimensions (mm/in)				
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
	SCG-M121	M12x1.5	2.0	5.0	6.0	22.0	15.5	14.0	14.0
			0.079	0.197	0.236	0.866	0.610	0.551	0.551
	SCG-M122	M12x1.5	3.0	6.5	6.0	22.0	15.5	14.0	14.0
			0.118	0.256	0.236	0.866	0.610	0.551	0.551
	SCG-M122-L	M12x1.5	3.0	6.5	12.0	22.0	15.5	14.0	14.0
			0.118	0.256	0.472	0.866	0.610	0.551	0.551
	SCG-M161	M16x1.5	2.0	6.0	7.0	23.0	20.8	19.0	17.0
			0.079	0.236	0.276	0.906	0.819	0.748	0.669
	SCG-M161-L	M16x1.5	2.0	6.0	12.0	23.0	20.8	19.0	17.0
			0.079	0.236	0.472	0.906	0.819	0.748	0.669
	SCG-M162 (cURus)	M16x1.5	4.0	8.0	7.0	23.0	20.8	19.0	17.0
			0.157	0.315	0.276	0.906	0.819	0.748	0.669
	SCG-M162-L	M16x1.5	4.0	8.0	12.0	23.0	20.8	19.0	17.0
			0.157	0.315	0.472	0.906	0.819	0.748	0.669
	SCG-M163 (cURus)	M16x1.5	5.0	10.0	7.0	28.5	24.5	22.0	22.0
			0.197	0.394	0.276	1.122	0.965	0.866	0.866
	SCG-M163-L	M16x1.5	5.0	10.0	12.0	28.5	24.5	22.0	22.0
			0.197	0.394	0.472	1.122	0.965	0.866	0.866
	SCG-M201	M20x1.5	5.0	9.0	8.0	25.5	24.5	22.0	22.0
			0.197	0.354	0.315	1.004	0.965	0.866	0.866
	SCG-M201-L	M20x1.5	5.0	9.0	12.0	25.5	24.5	22.0	22.0
			0.197	0.354	0.472	1.004	0.965	0.866	0.866
	SCG-M202	M20x1.5	6.0	12.0	8.0	25.5	24.5	22.0	22.0
			0.236	0.472	0.315	1.004	0.965	0.866	0.866

316L Stainless steel cable glands (general purpose)

SCG Series

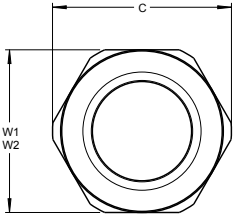
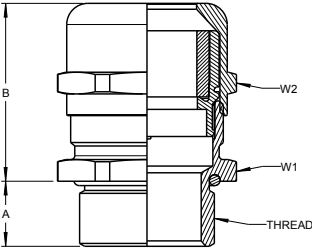
Dimensions

Metric thread	Part no.	Metric thread	Cable size		Nominal dimensions (mm/in)				
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
	SCG-M202-L	M20x1.5	6.0	12.0	12.0	25.5	24.5	22.0	22.0
			0.236	0.472	0.472	1.004	0.965	0.866	0.866
	SCG-M203	M20x1.5	10.0	14.0	8.0	27.5	26.8	24.0	24.0
			0.394	0.551	0.315	1.083	1.055	0.945	0.945
	SCG-M203-L	M20x1.5	10.0	14.0	12.0	27.5	26.8	24.0	24.0
			0.394	0.551	0.472	1.083	1.055	0.945	0.945
	SCG-M251	M25x1.5	7.0	12.0	8.0	27.5	29.6	27.0	24.0
			0.276	0.472	0.315	1.083	1.165	1.063	0.945
	SCG-M251-L	M25x1.5	7.0	12.0	12.0	27.5	29.6	27.0	24.0
			0.276	0.472	0.472	1.083	1.165	1.063	0.945
	SCG-M252	M25x1.5	9.0	16.0	8.0	31.5	33.0	30.0	30.0
			0.354	0.630	0.315	1.24	1.299	1.181	1.181
	SCG-M252-L	M25x1.5	9.0	16.0	12.0	31.5	33.0	30.0	30.0
			0.354	0.630	0.472	1.24	1.299	1.181	1.181
	SCG-M253	M25x1.5	10.0	14.0	8.0	27.5	29.6	27.0	24.0
			0.394	0.551	0.315	1.083	1.165	1.063	0.945
	SCG-M253-L	M25x1.5	10.0	14.0	12.0	27.5	29.6	27.0	24.0
			0.394	0.551	0.472	1.083	1.165	1.063	0.945
	SCG-M254	M25x1.5	13.0	18.0	8.0	31.5	33.0	30.0	30.0
			0.512	0.709	0.315	1.24	1.299	1.181	1.181
	SCG-M254-L	M25x1.5	13.0	18.0	12.0	31.5	33.0	30.0	30.0
			0.512	0.709	0.472	1.24	1.299	1.181	1.181
	SCG-M321	M32x1.5	9.0	16.0	9.0	32.5	38.9	36.0	30.0
			0.354	0.630	0.354	1.28	1.531	1.417	1.181
	SCG-M321-L	M32x1.5	9.0	16.0	15.0	32.5	38.9	36.0	30.0
			0.354	0.630	0.591	1.28	1.531	1.417	1.181
	SCG-M322	M32x1.5	12.0	20.0	9.0	39.5	44.5	41.0	41.0
			0.472	0.787	0.354	1.555	1.752	1.614	1.614
	SCG-M322-L	M32x1.5	12.0	20.0	15.0	39.5	44.5	41.0	41.0
			0.472	0.787	0.591	1.555	1.752	1.614	1.614
	SCG-M323	M32x1.5	13.0	18.0	9.0	32.5	38.9	36.0	30.0
			0.512	0.709	0.354	1.28	1.531	1.417	1.181
	SCG-M323-L	M32x1.5	13.0	18.0	15.0	32.5	38.9	36.0	30.0
			0.512	0.709	0.591	1.28	1.531	1.417	1.181
	SCG-M324 (cULus)	M32x1.5	15.0	21.0	8.0	36.0	39.0	36.0	36.0
			0.591	0.827	0.315	1.417	1.535	1.417	1.417
	SCG-M324-L	M32x1.5	15.0	21.0	15.0	36.0	39.0	36.0	36.0
			0.591	0.827	0.591	1.417	1.535	1.417	1.417
	SCG-M325	M32x1.5	18.0	25.0	9.0	39.5	44.5	41.0	41.0
			0.709	0.984	0.354	1.555	1.752	1.614	1.614
	SCG-M325-L	M32x1.5	18.0	25.0	15.0	39.5	44.5	41.0	41.0
			0.709	0.984	0.591	1.555	1.752	1.614	1.614
	SCG-M401	M40x1.5	12.0	20.0	9.0	40.5	51.4	46.0	41.0
			0.472	0.787	0.354	1.594	2.024	1.811	1.614
	SCG-M401-L	M40x1.5	12.0	20.0	15.0	40.5	51.4	46.0	41.0
			0.472	0.787	0.591	1.594	2.024	1.811	1.614
	SCG-M402 (cULus)	M40x1.5	19.0	28.0	9.0	43.5	51.4	46.0	46.0
			0.748	1.102	0.354	1.713	2.024	1.811	1.811
	SCG-M402-L	M40x1.5	19.0	28.0	15.0	43.5	51.4	46.0	46.0
			0.748	1.102	0.591	1.713	2.024	1.811	1.811

316L Stainless steel cable glands (general purpose)

SCG Series

Dimensions

Metric thread	Part no.	Metric thread	Cable range		Nominal dimensions (mm/in)				
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
  	SCG-M403	M40x1.5	18.0	25.0	9.0	40.5	51.4	46.0	46.0
			0.709	0.984	0.354	1.594	2.024	1.811	1.811
	SCG-M403-L	M40x1.5	19.0	28.0	15.0	40.5	51.4	46.0	46.0
			0.748	1.102	0.591	1.594	2.024	1.811	1.811
	SCG-M404	M40x1.5	22.0	32.0	9.0	47.5	55.5	50.0	50.0
			0.866	1.260	0.354	1.87	2.185	1.969	1.969
	SCG-M404-L	M40x1.5	22.0	32.0	15.0	47.5	55.5	50.0	50.0
			0.866	1.260	0.591	1.87	2.185	1.969	1.969
	SCG-M501	M50x1.5	20.0	26.0	9.0	46.0	60.0	55.0	50.0
			0.787	1.024	0.354	1.811	2.362	2.165	1.969
	SCG-M501-L	M50x1.5	20.0	26.0	15.0	46.0	60.0	55.0	50.0
			0.787	1.024	0.591	1.811	2.362	2.165	1.969
	SCG-M502	M50x1.5	22.0	32.0	9.0	46.0	60.0	55.0	50.0
			0.866	1.260	0.354	1.811	2.362	2.165	1.969
	SCG-M502-L	M50x1.5	22.0	32.0	15.0	46.0	60.0	55.0	50.0
			0.866	1.260	0.591	1.811	2.362	2.165	1.969
	SCG-M503 (cULus)	M50x1.5	27.0	38.0	9.0	51.5	67.2	60.0	60.0
			1.063	1.496	0.354	2.028	2.646	2.362	2.362
	SCG-M503-L	M50x1.5	27.0	38.0	15.0	51.5	67.2	60.0	60.0
			1.063	1.496	0.591	2.028	2.646	2.362	2.362
	SCG-M504	M50x1.5	34.0	44.0	9.0	52.0	71.0	65.0	65.0
			1.339	1.732	0.354	2.047	2.795	2.559	2.559
	SCG-M504-L	M50x1.5	34.0	44.0	15.0	53.0	71.0	65.0	65.0
			1.339	1.732	0.591	2.087	2.795	2.559	2.559
	SCG-M631	M63x1.5	29.0	35.0	10.0	53.0	77.0	70.0	65.0
			1.142	1.378	0.394	2.087	2.953	2.756	2.559
	SCG-M631-L	M63x1.5	29.0	35.0	18.0	53.5	77.0	70.0	65.0
			1.142	1.378	0.709	2.106	2.953	2.756	2.559
	SCG-M632	M63x1.5	34.0	44.0	10.0	53.5	77.0	70.0	65.0
			1.339	1.732	0.394	2.106	3.031	2.756	2.559
	SCG-M632-L	M63x1.5	34.0	44.0	18.0	53.5	77.0	70.0	65.0
			1.339	1.732	0.709	2.106	2.106	2.756	2.559
	SCG-M633	M63x1.5	37.0	53.0	10.0	51.0	83.0	75.0	75.0
			1.457	2.087	0.394	2.008	3.268	2.953	2.953
	SCG-M633-L	M63x1.5	37.0	53.0	18.0	51.0	83.0	75.0	75.0
			1.457	2.087	0.709	2.008	3.268	2.953	2.953

Dimensions

NPT thread	Part no.	NPT thread	Cable size		Nominal dimensions (mm/in)				
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
SCG-0381	3/8" NPT		2.0	6.0	11.5	23.0	21.0	19.0	17.0
			0.079	0.236	0.453	0.906	0.827	0.748	0.669
SCG-0382	3/8" NPT		5.0	10.0	11.5	29.5	22.0	20.0	20.0
			0.197	0.394	0.453	1.161	0.866	0.787	0.787
SCG-0501	1/2" NPT		5.0	9.0	13.0	29.0	30.5	27.0	22.0
			0.197	0.354	0.512	1.142	1.201	1.063	0.866

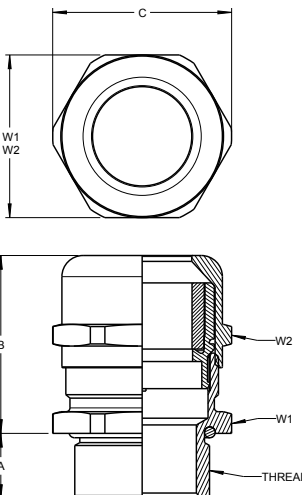
316L Stainless steel cable glands (general purpose)

SCG Series

Dimensions

NPT thread	Part no.	NPT thread	Cable size		Nominal dimensions (mm/in)				
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
	SCG-0502 (cULus)	1/2" NPT	6.0	12.0	13.0	29.0	30.5	27.0	22.0
			0.236	0.472	0.512	1.142	1.201	1.063	0.866
	SCG-0503	1/2" NPT	10.0	14.0	13.0	27.5	26.5	24.0	24.0
			0.394	0.551	0.512	1.083	1.043	0.945	0.945
	SCG-0751	3/4" NPT	9.0	16.0	13.0	34.0	33.0	30.0	30.0
			0.354	0.630	0.512	1.339	1.299	1.181	1.181
	SCG-0752	3/4" NPT	13.0	18.0	13.0	34.0	33.0	30.0	30.0
			0.512	0.709	0.512	1.339	1.299	1.181	1.181
	SCG-1001	1" NPT	12.0	20.0	13.0	45.5	45.5	41.0	41.0
			0.472	0.787	0.512	1.791	1.791	1.614	1.614
	SCG-1002	1" NPT	18.0	25.0	13.0	45.5	45.5	41.0	41.0
			0.709	0.984	0.512	1.791	1.791	1.614	1.614

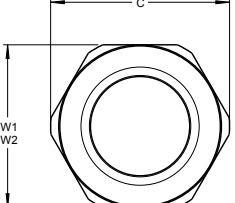
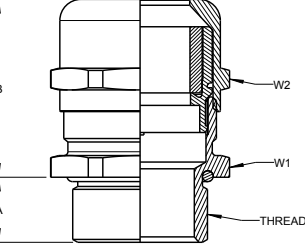
Dimensions

PG thread	Part no.	PG thread	Cable size		Nominal dimensions (mm/in)				
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
	SCG-PG71	PG07	2.0	5.0	6.0	22.0	15.5	14.0	14.0
			0.079	0.197	0.236	0.866	0.610	0.551	0.551
	SCG-PG71-L	PG07	2.0	5.0	10.0	22.0	15.5	14.0	14.0
			0.079	0.197	0.394	0.866	0.610	0.551	0.551
	SCG-PG72	PG07	3.0	6.5	6.0	22.0	15.5	14.0	14.0
			0.118	0.256	0.236	0.866	0.610	0.551	0.551
	SCG-PG72-L	PG07	3.0	6.5	10.0	22.0	15.5	14.0	14.0
			0.118	0.256	0.394	0.866	0.610	0.551	0.551
	SCG-PG91	PG09	2.0	6.0	6.0	23.0	21.0	19.0	17.0
			0.079	0.236	0.236	0.906	0.827	0.748	0.669
	SCG-PG91-L	PG09	2.0	6.0	10.0	23.0	21.0	19.0	17.0
			0.079	0.236	0.394	0.906	0.827	0.748	0.669
	SCG-PG92	PG09	4.0	8.0	6.0	23.0	21.0	19.0	17.0
			0.157	0.315	0.236	0.906	0.827	0.748	0.669
	SCG-PG92-L	PG09	4.0	8.0	10.0	25.2	24.0	19.0	22.0
			0.157	0.315	0.394	1.004	0.945	0.748	0.866
	SCG-PG111	PG11	3.0	7.0	6.0	25.5	24.0	22.0	22.0
			0.118	0.276	0.236	1.004	0.945	0.866	0.866
	SCG-PG111-L	PG11	3.0	7.0	10.0	25.5	24.0	22.0	22.0
			0.118	0.276	0.394	1.004	0.945	0.866	0.866
	SCG-PG112	PG11	5.0	10.0	6.0	25.5	24.0	22.0	22.0
			0.197	0.394	0.236	1.004	0.945	0.866	0.866
	SCG-PG112-L	PG11	5.0	10.0	10.0	25.5	24.0	22.0	22.0
			0.197	0.394	0.394	1.004	0.945	0.866	0.866
	SCG-PG131	PG13.5	5.0	9.0	6.5	24.0	24.5	22.0	22.0
			0.197	0.354	0.256	0.945	0.965	0.866	0.866
	SCG-PG131-L	PG13.5	5.0	9.0	10.0	24.0	24.5	22.0	22.0
			0.197	0.354	0.394	0.945	0.965	0.866	0.866
	SCG-PG132	PG13.5	6.0	12.0	6.5	24.0	24.5	22.0	22.0
			0.236	0.472	0.256	0.945	0.965	0.866	0.866

316L Stainless steel cable glands (general purpose)

SCG Series

Dimensions

PG thread	Part no.	PG thread	Cable range		Nominal dimensions (mm/in)				
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
	SCG-PG132-L	PG13.5	6.0	12.0	10.0	24.0	24.5	22.0	22.0
			0.236	0.472	0.394	0.945	0.965	0.866	0.866
	SCG-PG161	PG16	7.0	12.0	6.5	27.5	26.5	24.0	24.0
			0.276	0.472	0.256	1.083	1.043	0.945	0.945
	SCG-PG161-L	PG16	7.0	12.0	10.0	27.5	26.5	24.0	24.0
			0.276	0.472	0.394	1.083	1.043	0.945	0.945
	SCG-PG162	PG16	10.0	14.0	6.5	24.0	26.5	24.0	24.0
			0.394	0.551	0.256	0.945	1.043	0.945	0.945
	SCG-PG162-L	PG16	10.0	14.0	10.0	24.0	26.5	24.0	24.0
			0.394	0.551	0.394	0.945	1.043	0.945	0.945
	SCG-PG211	PG21	9.0	16.0	7.2	31.5	33.0	30.0	30.0
			0.354	0.630	0.283	1.240	1.299	1.181	1.181
	SCG-PG211-L	PG21	9.0	16.0	10.0	31.5	33.0	30.0	30.0
			0.354	0.630	0.394	1.240	1.299	1.181	1.181
	SCG-PG212	PG21	13.0	18.0	7.2	31.5	33.0	30.0	30.0
			0.512	0.709	0.283	1.240	1.299	1.181	1.181
	SCG-PG212-L	PG21	13.0	18.0	12.0	31.5	33.0	30.0	30.0
			0.512	0.709	0.472	1.240	1.299	1.181	1.181
	SCG-PG291	PG29	12.0	20.0	8.0	40.5	44.5	40.0	40.0
			0.472	0.787	0.315	1.594	1.752	1.575	1.575
	SCG-PG291-L	PG29	12.0	20.0	12.0	40.5	44.5	40.0	40.0
			0.472	0.787	0.472	1.594	1.752	1.575	1.575
	SCG-PG292	PG29	18.0	25.0	8.0	40.5	44.5	40.0	40.0
			0.709	0.984	0.315	1.594	1.752	1.575	1.575
	SCG-PG292-L	PG29	18.0	25.0	12.0	40.5	44.5	40.0	40.0
			0.709	0.984	0.472	1.594	1.752	1.575	1.575
	SCG-PG361	PG36	20.0	26.0	9.0	47.5	55.5	50.0	50.0
			0.787	1.024	0.354	1.870	2.185	1.969	1.969
	SCG-PG361-L	PG36	20.0	26.0	14.0	47.5	55.5	50.0	50.0
			0.787	1.024	0.551	1.870	2.185	1.969	1.969
	SCG-PG362	PG36	22.0	32.0	9.0	47.5	55.5	50.0	50.0
			0.866	1.260	0.354	1.870	2.185	1.969	1.969
	SCG-PG362-L	PG36	22.0	32.0	14.0	47.5	55.5	50.0	50.0
			0.866	1.260	0.551	1.870	2.185	1.969	1.969
	SCG-PG421	PG42	25.0	31.0	12.0	48.0	66.5	60.0	60.0
			0.984	1.220	0.472	1.890	2.618	2.362	2.362
	SCG-PG421-L	PG42	25.0	31.0	16.0	48.0	66.5	60.0	60.0
			0.984	1.220	0.630	1.890	2.618	2.362	2.362
	SCG-PG422	PG42	30.0	38.0	12.0	48.0	66.5	60.0	60.0
			1.181	1.496	0.472	1.890	2.618	2.362	2.362
	SCG-PG422-L	PG42	30.0	38.0	16.0	48.0	66.5	60.0	60.0
			1.181	1.496	0.630	1.890	2.618	2.362	2.362
	SCG-PG481	PG48	29.0	35.0	14.0	49.5	72.0	65.0	65.0
			1.142	1.378	0.551	1.949	2.835	2.559	2.559
	SCG-PG481-L	PG48	29.0	35.0	18.0	49.5	72.0	65.0	65.0
			1.142	1.378	0.709	1.949	2.835	2.559	2.559
	SCG-PG482	PG48	34.0	44.0	14.0	49.5	72.0	65.0	65.0
			1.339	1.732	0.551	1.949	2.835	2.559	2.559
	SCG-PG482-L	PG48	34.0	44.0	18.0	49.5	72.0	65.0	65.0
			1.339	1.732	0.709	1.949	2.835	2.559	2.559

Brass EMC cable glands (shielded and screened cables)

BEM Series



Features and benefits:

- Low profile compact cable glands
- Wide cable clamping range
- Good corrosion resistance
- Extended radial contact with the shielding for improved EMI protection

BEM Series - Brass EMC cable glands

Approvals & certifications



Conformity

Conforms to:

EN 62444

LVD (Low Voltage Directive)
2014/35/EU

UL514B/CSA C22.2 No 18.3
(see table for details)

Temperature range

Operating range: -40°C to +100°C (-40°F to +212°F)

Short Term: -30°C to +150°C (-22°F to +302°F)

IP Rating	Material
IP66	Nickel plated brass construction
IP68 (5-Bar 30 mins)	Chloroprene seals
NEMA 4	Tinned copper EMC contacts

Dimensions

Metric thread	Part no.	Metric thread	Cable size		Shield size		Nominal dimensions (mm/in)				
			Min. (mm/in)	Max. (mm/in)	Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
	BEM-M121 (cURus)	M12x1.5	3.0	6.5	2.0	5.0	6.0	28.0	15.5	14.0	14.0
			0.118	0.256	0.079	0.197	0.236	1.102	0.610	0.551	0.551
	BEM-M161 (cURus)	M16x1.5	5.0	10.0	3.5	8.0	6.0	33.0	22.0	20.0	20.0
			0.197	0.394	0.138	0.315	0.236	1.299	0.866	0.787	0.787
	BEM-M201 (cULus)	M20x1.5	6.0	12.0	4.5	10.0	6.0	31.5	24.5	22.0	22.0
			0.236	0.472	0.177	0.394	0.236	1.240	0.965	0.866	0.866
	BEM-M202 (cULus)	M20x1.5	7.5	14.0	5.5	11.5	8.0	39.5	26.8	24.0	24.0
			0.295	0.551	0.217	0.453	0.315	1.555	1.055	0.945	0.945
	BEM-M251 (cULus)	M25x1.5	10.0	18.0	7.0	14.0	8.0	43.0	33.0	30.0	30.0
			0.394	0.709	0.276	0.551	0.315	1.693	1.299	1.181	1.181
	BEM-M321 (cULus)	M32x1.5	16.0	25.0	12.0	20.0	9.0	53.0	43.5	40.0	40.0
			0.630	0.984	0.472	0.787	0.354	2.087	1.713	1.575	1.575
	BEM-M401 (cULus)	M40x1.5	22.0	32.0	18.0	27.0	9.0	60.5	55.5	50.0	50.0
			0.866	1.260	0.709	1.063	0.354	2.382	2.185	1.969	1.969
	BEM-M501 (cULus)	M50x1.5	30.0	38.0	26.0	34.0	9.0	72.0	64.0	58.0	58.0
			1.181	1.496	1.024	1.339	0.354	2.834	2.520	2.283	2.283
	BEM-M631 (cULus)	M63x1.5	34.0	44.0	30.0	40.0	14.0	58.0	75.0	68.0	64.0
			1.339	1.732	1.181	1.575	0.551	2.283	2.953	2.677	2.520
	BEM-M632 (cULus)	M63x1.5	37.0	53.0	33.0	49.0	10.0	73.0	83.0	75.0	75.0
			1.457	2.087	1.299	1.929	0.394	2.874	3.268	2.953	2.953

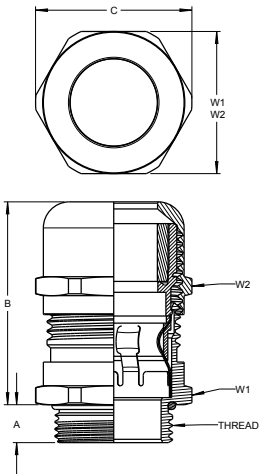
Brass EMC cable glands (shielded and screened cables)

BEM Series

Dimensions

NPT thread	Part no.	NPT thread	Cable size		Shield size		Nominal dimensions (mm/in)				
			Min. (mm/in)	Max. (mm/in)	Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
	BEM-0251	1/4"	3.0	6.5	2.0	5.0	11.5	28.0	16.5	15.0	14.0
			0.118	0.256	0.079	0.197	0.453	1.102	0.650	0.591	0.551
	BEM-0381	3/8"	5.0	10.0	3.5	8.0	11.5	33.0	22.0	20.0	20.0
			0.197	0.394	0.138	0.315	0.453	1.299	0.866	0.787	0.787
	BEM-0501	1/2"	6.0	12.0	4.5	10.0	15.0	37.5	24.5	22.0	22.0
			0.236	0.472	0.177	0.394	0.591	1.476	0.965	0.866	0.866
	BEM-0502	1/2"	7.5	14.0	5.5	11.5	15.0	39.5	26.8	24.0	24.0
			0.295	0.551	0.217	0.453	0.591	1.555	1.055	0.945	0.945
	BEM-0751	3/4"	10.0	18.0	7.0	14.0	15.0	41.5	33.0	30.0	30.0
			0.394	0.709	0.276	0.551	0.591	1.634	1.299	1.181	1.181
	BEM-1001	1"	16.0	25.0	12.0	20.0	20.0	52.0	43.5	40.0	40.0
			0.630	0.984	0.472	0.787	0.787	2.047	1.713	1.575	1.575
	BEM-1251	1 1/4"	22.0	32.0	18.0	27.0	20.0	61.0	55.5	50.0	50.0
			0.866	1.260	0.709	1.063	0.787	2.402	2.185	1.969	1.969
	BEM-1501	1 1/2"	30.0	38.0	26.0	34.0	22.0	71.0	64.0	58.0	58.0
			1.181	1.496	1.024	1.339	0.866	2.795	2.520	2.283	2.283
	BEM-2001	2"	34.0	44.0	30.0	40.0	22.0	71.0	75.0	68.0	64.0
			1.339	1.732	1.181	1.575	0.866	2.815	2.953	2.677	2.520

Dimensions

PG thread	Part no.	PG thread	Cable size		Shield size		Nominal dimensions (mm/in)				
			Min. (mm/in)	Max. (mm/in)	Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
	BEM-PG71	PG7	3.0	6.5	2.0	5.0	6.0	28.0	16.5	15.0	14.0
			0.118	0.256	0.079	0.197	0.236	1.102	0.650	0.591	0.551
	BEM-PG111	PG11	5.0	10.0	3.5	8.0	6.0	33.0	23.0	21.0	20.0
			0.197	0.394	0.138	0.315	0.236	1.299	0.906	0.827	0.787
	BEM-PG131	PG13	6.0	12.0	4.5	10.0	6.5	31.5	24.5	22.0	22.0
			0.236	0.472	0.177	0.394	0.256	1.240	0.965	0.866	0.866
	BEM-PG161	PG16	7.5	14.0	5.5	11.5	6.5	39.5	27.5	25.0	24.0
			0.295	0.551	0.217	0.453	0.256	1.555	1.083	0.984	0.945
	BEM-PG211	PG21	10.0	18.0	7.0	14.0	7.0	42.5	35.5	32.0	30.0
			0.394	0.709	0.276	0.551	0.276	1.673	1.398	1.260	1.181
	BEM-PG291	PG29	16.0	25.0	12.0	20.0	9.0	53.0	43.5	40.0	40.0
			0.630	0.984	0.472	0.787	0.354	2.087	1.713	1.575	1.575
	BEM-PG361	PG36	22.0	32.0	18.0	27.0	9.0	60.0	55.5	50.0	50.0
			0.866	1.260	0.709	1.063	0.354	2.362	2.185	1.969	1.969
	BEM-PG421	PG42	30.0	38.0	26.0	34.0	12.0	72.5	66.5	60.0	58.0
			1.181	1.496	1.024	1.339	0.472	2.854	2.618	2.362	2.283
	BEM-PG481	PG48	34.0	44.0	30.0	40.0	14.0	58.5	75.0	68.0	64.0
			1.339	1.732	1.181	1.575	0.551	2.303	2.953	2.677	2.520

General purpose cable glands

MSG Series



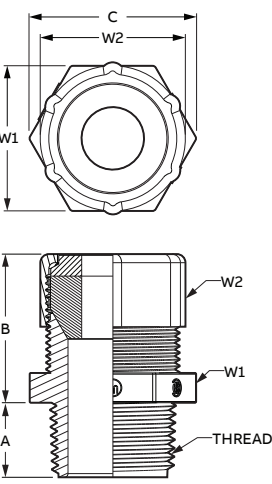
Features and benefits:

- Large cable clamping range
- Liquid tight mechanical grip
- Full length bushing seal, protects cable

MSG Series -General purpose cable glands

Approvals & certifications		Conformity Conforms to:	Temperature range
		UL514B	Normal use: -20°C to 105°C (-4°F to 221°F)
		CSA C22.2-18.3	
		ANSI C33.84	
		IP Rating	Material
		NEMA Type 4x or 6 (With 5262 Series sealing rings)	Steel/Zinc construction Neoprene sealing ring
		Wet and dry locations	Nylon retaining ring
		Fire	
		NFPA 70 (ANSI)	

Dimensions

NPT	Part no.	NPT thread	Cable range		Nominal dimensions (mm/in)				
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
	2516 †	1/4"	1.52	3.18	11.68	24.83	20.98	19.05	19.05
			0.060	0.125	0.460	0.978	0.826	0.750	0.750
	2517 †	1/4"	3.05	6.35	11.68	24.83	20.98	19.05	19.05
			0.120	0.250	0.460	0.978	0.826	0.750	0.750
	2518 †	3/8"	1.52	3.81	11.68	24.83	24.71	22.23	22.23
			0.060	0.150	0.460	0.978	0.973	0.875	0.875
	2519 † **	3/8"	3.81	0.76	11.68	24.83	24.71	22.23	22.23
			0.150	0.030	0.460	0.978	0.973	0.875	0.875
	2520	1/2"	3.18	6.35	15.62	28.83	29.34	25.40	25.91
			0.125	0.250	0.615	1.135	1.155	1.000	1.020
	2521	1/2"	6.35	9.53	15.62	28.83	29.34	25.40	25.91
			0.250	0.375	0.615	1.135	1.155	1.000	1.020
	2522	1/2"	9.53	12.70	15.62	28.83	29.34	25.40	25.91
			0.375	0.500	0.615	1.135	1.155	1.000	1.020
	2523	1/2"	11.43	14.22	15.62	28.83	29.34	25.40	26.21
			0.450	0.560	0.615	1.135	1.155	1.000	1.032
	2524 *	1/2"	12.70	15.88	15.62	28.89	34.93	30.15	31.12
			0.500	0.625	0.615	1.138	1.375	1.187	1.225
	2525 *	1/2"	15.88	19.05	15.62	28.89	34.93	30.15	31.12
			0.625	0.750	0.615	1.138	1.375	1.187	1.225

* Remove sufficient outer of the cable to permit conductors to pass through fitting body

† Not UL listed

** Not CSA certified

General purpose cable glands

MSG Series

Dimensions



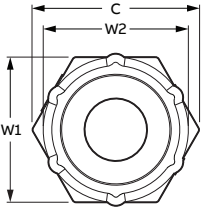
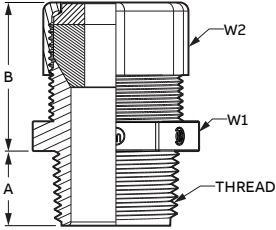
NPT	Part no.	NPT thread	Cable range		Nominal dimensions (mm/in)				
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
	2530	3/4"	3.18	6.35	15.93	34.29	35.94	30.99	31.12
			0.125	0.250	0.627	1.350	1.415	1.220	1.225
	2531	3/4"	6.35	9.53	15.93	34.29	35.94	30.99	31.12
			0.250	0.375	0.627	1.350	1.415	1.220	1.225
	2532	3/4"	9.53	12.70	15.93	34.29	35.94	30.99	31.12
			0.375	0.500	0.627	1.350	1.415	1.220	1.225
	2534	3/4"	12.70	15.88	15.93	34.29	35.94	30.99	31.12
			0.500	0.625	0.627	1.350	1.415	1.220	1.225
	2535	3/4"	15.88	19.05	15.93	34.29	34.93	30.99	31.12
			0.625	0.750	0.627	1.350	1.375	1.220	1.225
	2536*	3/4"	19.05	22.35	15.94	33.27	43.99	38.10	37.97
			0.750	0.880	0.628	1.310	1.732	1.500	1.495
	2541	1"	6.35	9.53	20.02	30.30	43.71	37.85	31.12
			0.250	0.375	0.788	1.193	1.721	1.490	1.225
	2542	1"	9.53	12.70	20.02	30.30	43.71	37.85	31.12
			0.375	0.500	0.788	1.193	1.721	1.490	1.225
	2544	1"	12.70	15.88	20.02	30.30	43.71	37.85	31.12
			0.500	0.625	0.788	1.193	1.721	1.490	1.225
	2545	1"	15.88	19.05	20.02	30.30	18.31	37.85	31.12
			0.625	0.750	0.788	1.193	0.721	1.490	1.225
	2546	1"	19.05	22.35	20.03	35.69	43.99	38.10	37.97
			0.750	0.880	0.789	1.405	1.732	1.500	1.495
	2547	1"	22.23	25.02	20.03	35.69	43.99	38.10	37.97
			0.875	0.985	0.789	1.405	1.732	1.500	1.495
	2548*	1"	22.35	27.05	19.84	40.49	56.82	49.21	48.26
			0.880	1.065	0.781	1.594	2.237	1.938	1.900
	2549*	1"	27.05	30.61	19.84	40.49	56.82	49.21	48.26
			1.065	1.205	0.781	1.594	2.237	1.938	1.900
	2558	1 1/4"	22.35	27.05	20.41	34.37	56.82	49.21	48.26
			0.880	1.065	0.804	1.353	2.237	1.938	1.900
	2559	1 1/4"	27.05	30.61	20.41	34.37	56.82	49.21	48.26
			1.065	1.205	0.804	1.353	2.237	1.938	1.900
	2556*	1 1/4"	30.15	34.93	20.62	42.86	61.44	53.21	54.58
			1.187	1.375	0.812	1.688	2.419	2.095	2.149
	2557*	1 1/4"	34.93	37.72	20.62	42.86	61.44	53.21	54.58
			1.375	1.485	0.812	1.688	2.419	2.095	2.149
	2562	1 1/2"	20.62	25.40	20.82	42.68	65.99	57.15	54.58
			0.812	1.000	0.820	1.681	2.598	2.250	2.149
	2563	1 1/2"	25.40	30.15	20.82	52.76	65.99	57.15	54.58
			1.000	1.187	0.820	2.077	2.598	2.250	2.149
	2564	1 1/2"	30.15	34.93	20.82	52.76	65.99	57.15	54.58
			1.187	1.375	0.820	2.077	2.598	2.250	2.149
	2565*	1 1/2"	34.93	41.28	20.64	46.04	76.05	65.86	66.19
			1.375	1.625	0.813	1.813	2.994	2.593	2.606
	2573	2"	28.58	34.93	21.60	52.25	78.84	68.28	66.19
			1.125	1.375	0.851	2.057	3.104	2.688	2.606
	2574	2"	34.93	41.28	21.60	52.25	78.84	68.28	66.19
			1.375	1.625	0.851	2.057	3.104	2.688	2.606

* Remove sufficient outer of the cable to permit conductors to pass through fitting body

General purpose cable glands

MSG Series

Dimensions

NPT	Part no.	NPT thread	Cable range		Nominal dimensions (mm/in)				
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
	2575	2"	41.28	47.63	21.60	52.25	78.84	68.28	66.19
			1.625	1.875	0.851	2.057	3.104	2.688	2.606
	2576*	2"	44.45	49.91	21.43	67.47	84.33	73.03	78.97
			1.750	1.965	0.844	2.656	3.320	2.875	3.109
	2577*	2"	49.20	55.55	21.43	67.47	85.32	73.03	85.32
			1.937	2.187	0.844	2.656	3.359	2.875	3.359
	2584	2 1/2"	44.45	49.91	26.19	69.04	92.13	79.78	85.32
			1.750	1.965	1.031	2.718	3.627	3.141	3.359
	2585	2 1/2"	49.20	55.55	26.19	69.04	92.13	79.78	85.32
			1.937	2.187	1.031	2.718	3.627	3.141	3.359
	2586*	2 1/2"	54.76	59.94	26.19	81.74	104.78	90.47	104.78
			2.156	2.360	1.031	3.218	4.125	3.562	4.125
	2587*	2 1/2"	59.69	65.15	26.19	81.74	104.78	90.47	104.78
			2.350	2.565	1.031	3.218	4.125	3.562	4.125
	2592	3"	54.76	59.94	26.19	81.74	109.98	95.25	104.78
			2.156	2.360	1.031	3.218	4.330	3.750	4.125
	2593	3"	59.69	65.15	26.19	81.74	109.98	95.25	104.78
			2.350	2.565	1.031	3.218	4.330	3.750	4.125
	2594	3"	64.39	69.85	26.19	81.74	109.98	95.25	104.78
			2.535	2.750	1.031	3.218	4.330	3.750	4.125
	2595*	3"	69.47	75.82	27.79	94.46	125.10	108.33	119.06
			2.735	2.985	1.094	3.719	4.925	4.265	4.688
	2596*	3"	75.44	81.79	27.79	94.46	125.10	108.33	119.06
			2.970	3.220	1.094	3.719	4.925	4.265	4.688

* Remove sufficient outer of the cable to permit conductors to pass through fitting body

General purpose cable glands

MSG-90 Series



Features and benefits:

- Large cable clamping range
- Full length bushing seal, protects cable
- Elbow construction for compact installations

MSG-90 Series - General purpose 90° elbow cable glands

Approvals & certifications



Conformity

Conforms to:

UL514B

CSA C22.2-18.3

ANSI C33.84

NFPA 70 (ANSI)

Temperature range

Normal use: -20°C to 105°C (-4°F to 221°F)

IP Rating

NEMA Type 4x or 6

(With 5262 Series sealing rings)

Wet and dry locations

Material

Steel/Zinc construction

Neoprene sealing ring

Nylon retaining ring

Fire

NFPA 70 (ANSI)

Dimensions

NPT thread	Part no.	NPT thread	Cable size		Nominal dimensions (mm/in)				
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
	2268	1/2"	6.35	9.53	17.07	43.66	33.22	26.19	26.19
			0.250	0.375	0.672	1.719	1.308	1.031	1.031
	2269	1/2"	9.53	12.70	17.07	43.66	33.22	26.19	26.19
			0.375	0.500	0.672	1.719	1.308	1.031	1.031
	2270	1/2"	11.43	14.22	17.07	43.66	33.22	26.19	26.19
			0.450	0.560	0.672	1.719	1.308	1.031	1.031
	2250*	1/2"	12.70	15.88	19.84	42.88	39.70	28.83	31.12
			0.500	0.625	0.781	1.688	1.563	1.135	1.225
	2251 *	1/2"	15.88	19.05	19.84	42.88	39.70	28.83	31.12
			0.625	0.750	0.781	1.688	1.563	1.135	1.225
	2252	1/2"	3.18	6.35	17.27	44.45	38.38	33.50	31.12
			0.125	0.250	0.680	1.750	1.511	1.319	1.225
	2271	3/4"	6.35	9.53	17.27	41.28	38.38	33.50	31.12
			0.250	0.375	0.680	1.625	1.511	1.319	1.225
	2272	3/4"	9.53	12.70	17.27	41.28	38.38	33.50	31.12
			0.375	0.500	0.680	1.625	1.511	1.319	1.225
	2273	3/4"	12.70	15.88	17.27	41.28	38.38	33.50	31.12
			0.500	0.625	0.680	1.625	1.511	1.319	1.225

* Remove sufficient outer of the cable to permit conductors to pass through fitting body

General purpose cable glands

MSG-90 Series

Dimensions

NPT thread	Part no.	NPT thread	Cable size		Nominal dimensions (mm/in)				
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
	2274 *	3/4"	15.75	19.05	17.27	41.28	38.38	33.50	31.12
			0.620	0.750	0.680	1.625	1.511	1.319	1.225
	2253 *	3/4"	19.05	22.35	15.09	50.01	37.97	34.93	37.97
			0.750	0.880	0.594	1.969	1.495	1.375	1.495
	2254	1"	9.53	12.70	19.84	50.80	39.70	34.34	31.12
			0.375	0.500	0.781	2.000	1.563	1.352	1.225
	2255	1"	12.70	15.88	19.84	50.80	39.70	34.34	31.12
			0.500	0.625	0.781	2.000	1.563	1.352	1.225
	2256 *	1"	15.88	19.05	19.84	50.80	39.70	34.34	31.12
			0.625	0.750	0.781	2.000	1.563	1.352	1.225
	2275	1"	19.05	22.23	20.65	50.80	39.70	39.70	37.97
			0.750	0.875	0.813	2.000	1.563	1.563	1.495
	2276	1"	22.23	25.02	20.65	50.80	39.70	39.70	37.97
			0.875	0.985	0.813	2.000	1.563	1.563	1.495
	2257 *	1"	22.35	27.05	19.84	67.46	48.46	34.37	48.46
			0.880	1.065	0.781	2.656	1.908	1.353	1.908
	2258 *	1"	27.05	30.61	19.84	67.46	48.46	34.37	48.46
			1.065	1.205	0.781	2.656	1.908	1.353	1.908
	2277	1 1/4"	22.35	27.05	19.84	53.04	48.46	34.37	48.46
			0.880	1.065	0.781	2.088	1.908	1.353	1.908
	2278	1 1/4"	27.05	30.61	19.84	53.04	48.46	34.37	48.46
			1.065	1.205	0.781	2.088	1.908	1.353	1.908
	2279 *	1 1/4"	30.15	34.93	20.65	71.45	50.80	50.80	48.46
			1.187	1.375	0.813	2.813	2.000	2.000	1.908
	2280 *	1 1/4"	34.93	37.72	20.65	71.45	54.58	50.80	54.58
			1.375	1.485	0.813	2.813	2.149	2.000	2.149
	2282	1 1/2"	25.40	30.15	20.65	73.03	54.58	53.98	54.58
			1.000	1.187	0.813	2.875	2.149	2.125	2.149
	2283 *	1 1/2"	30.15	34.93	20.65	73.03	54.58	53.98	54.58
			1.187	1.375	0.813	2.875	2.149	2.125	2.149
	2284	2"	28.58	34.93	21.44	82.55	69.85	60.50	66.01
			1.125	1.375	0.844	3.250	2.750	2.382	2.599
	2285	2"	34.93	41.28	21.44	82.55	69.85	60.50	66.01
			1.375	1.625	0.844	3.250	2.750	2.382	2.599
	2286	2"	41.28	47.63	21.44	82.55	69.85	60.50	66.01
			1.625	1.875	0.844	3.250	2.750	2.382	2.599

* Remove sufficient outer of the cable to permit conductors to pass through fitting body

General purpose cable glands

MSG-45 Series



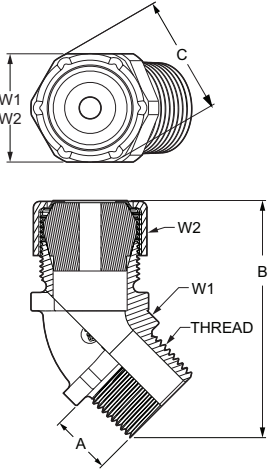
Features and benefits:

- Large cable clamping range
- Full length bushing seal, protects cable
- Elbow construction for compact installations

MSG-45 Series -General purpose 45° elbow cable glands

Approvals & certifications		Conformity		Temperature range	
		Conforms to:		Normal use: -20°C to 105°C (-4°F to 221°F)	
		UL514B			
		CSA C22.2-18.3			
		ANSI C33.84			
		NFPA 70 (ANSI)			
		IP Rating		Material	
		NEMA Type 4x or 6 (With 5262 Series sealing rings)		Steel/Zinc construction	
		Wet and dry locations		Neoprene sealing ring	
				Nylon retaining ring	
		Fire			
		NFPA 70 (ANSI)			

Dimensions

NPT thread	Part no.	NPT thread	Cable size		Nominal dimensions (mm/in)				
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
	2200	1/2"	3.18	6.35	17.48	32.54	30.18	27.00	30.99
			0.125	0.250	0.688	1.281	1.188	1.063	1.220
	2201	1/2"	6.35	9.53	17.48	32.54	30.18	27.00	30.99
			0.250	0.375	0.688	1.281	1.188	1.063	1.220
	2202	1/2"	9.53	12.70	17.48	32.54	30.18	27.00	30.99
			0.375	0.500	0.688	1.281	1.188	1.063	1.220
	2203	1/2"	11.43	14.22	17.48	32.54	30.18	27.00	30.99
			0.450	0.560	0.688	1.281	1.188	1.063	1.220
	2204 *	1/2"	12.70	15.88	16.43	46.05	32.99	28.58	31.12
			0.500	0.625	0.647	1.813	1.299	1.125	1.225
	2205 *	1/2"	15.88	19.05	16.43	46.05	32.99	28.58	31.12
			0.625	0.750	0.647	1.813	1.299	1.125	1.225
	2206-TB	3/4"	3.18	6.35	16.69	46.05	35.76	30.96	31.12
			0.125	0.250	0.657	1.813	1.408	1.219	1.225
	2207-TB	3/4"	6.35	9.53	16.69	46.05	35.76	30.96	31.12
			0.250	0.375	0.657	1.813	1.408	1.219	1.225
	2208-TB	3/4"	9.53	12.70	16.69	46.05	35.76	30.96	31.12
			0.375	0.500	0.657	1.813	1.408	1.219	1.225

* Remove sufficient outer of the cable to permit conductors to pass through fitting body

General purpose cable glands

MSG-45 Series

Dimensions

NPT thread	Part no.	NPT thread	Cable size		Nominal dimensions (mm/in)				
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
	2209	3/4"	12.70	15.88	16.69	46.05	35.76	30.96	31.12
			0.500	0.625	0.657	1.813	1.408	1.219	1.225
	2210	3/4"	15.88	19.05	16.69	46.05	35.76	30.96	31.12
			0.625	0.750	0.657	1.813	1.408	1.219	1.225
	2211 *	3/4"	19.05	22.35	19.84	38.10	40.34	34.93	37.97
			0.750	0.880	0.781	1.500	1.588	1.375	1.495
	2213	1"	9.53	12.70	19.84	38.10	43.99	38.10	31.12
			0.375	0.500	0.781	1.500	1.732	1.500	1.225
	2214	1"	12.70	15.88	19.84	38.10	43.99	38.10	31.12
			0.500	0.625	0.781	1.500	1.732	1.500	1.225
	2215	1"	15.88	19.05	19.84	38.10	43.99	38.10	31.12
			0.625	0.750	0.781	1.500	1.732	1.500	1.225
	2216	1"	19.05	22.23	19.84	37.31	45.82	39.70	37.97
			0.750	0.875	0.781	1.469	1.804	1.563	1.495
	2217 *	1"	22.23	25.02	19.84	37.31	45.82	39.70	37.97
			0.875	0.985	0.781	1.469	1.804	1.563	1.495
	2218 *	1"	22.35	27.05	19.84	50.01	54.99	47.63	48.54
			0.880	1.065	0.781	1.969	2.165	1.875	1.911
	2219 *	1"	27.05	30.61	19.84	50.01	54.99	47.63	48.54
			1.065	1.205	0.781	1.969	2.165	1.875	1.911
	2222 *	1 1/4"	30.15	34.93	21.44	57.15	54.38	50.80	54.38
			1.187	1.375	0.844	2.250	2.141	2.000	2.141
	2223 *	1 1/4"	34.93	37.72	21.44	57.15	79.78	50.80	79.78
			1.375	1.485	0.844	2.250	3.141	2.000	3.141

* Remove sufficient outer of the cable to permit conductors to pass through fitting body

General purpose internal thread cable glands

MSCG-I series



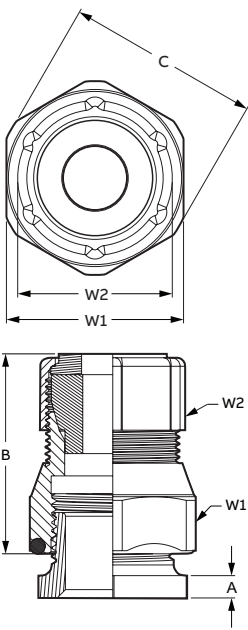
Features and benefits:

- Large cable clamping range
- Full length bushing seal, protects cable
- Internal securing method to reduce intrusion into enclosure

MSCG-I Series - General purpose Internal thread cable glands

Approvals & certifications	Conformity Conforms to:	Temperature range	
		Normal use: -20°C to 105°C (-4°F to 221°F)	
 	UL514B	IP Rating	Material
	CSA C22.2-18.3		
	ANSI C33.84	NEMA Type 4x or 6 (With 5262 Series sealing rings)	Steel/Zinc construction
	NFPA 70 (ANSI)		
		Wet and dry locations	Neoprene sealing ring
			Nylon retaining ring
		Fire	
		NFPA 70 (ANSI)	

Dimensions

NPT thread	Part no.	NPT thread	Cable size		Nominal dimensions (mm/in)				
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
	2631	1/2"	3.18	6.35	3.18	38.10	30.99	28.58	22.86
			0.125	0.250	0.125	1.500	1.220	1.125	0.900
	2632	1/2"	6.35	9.53	3.18	38.10	30.99	28.58	22.86
			0.250	0.375	0.125	1.500	1.220	1.125	0.900
	2633	1/2"	9.53	12.70	3.18	38.10	30.99	28.58	22.86
			0.375	0.500	0.125	1.500	1.220	1.125	0.900
	2634	1/2"	11.43	14.22	3.18	41.28	30.99	28.58	22.86
			0.450	0.560	0.125	1.625	1.220	1.125	0.900
	2637	3/4"	3.18	6.35	4.76	39.69	38.86	34.93	31.12
			0.125	0.250	0.188	1.563	1.530	1.375	1.225
	2638	3/4"	6.35	9.53	4.76	39.69	38.86	34.93	31.12
			0.250	0.375	0.188	1.563	1.530	1.375	1.225
	2639	3/4"	9.53	12.70	4.76	39.69	38.86	34.93	31.12
			0.375	0.500	0.188	1.563	1.530	1.375	1.225
	2640	3/4"	12.70	15.88	4.76	39.69	38.86	34.93	31.12
			0.500	0.625	0.188	1.563	1.530	1.375	1.225
	2641	3/4"	15.88	19.05	4.76	39.69	38.86	34.93	31.12
			0.625	0.750	0.188	1.563	1.530	1.375	1.225
	2646	1"	12.70	15.88	4.76	41.28	46.02	41.28	31.12
			0.500	0.625	0.188	1.625	1.812	1.625	1.225
	2647	1"	15.88	19.05	4.76	41.28	46.02	41.28	31.12
			0.625	0.750	0.188	1.625	1.812	1.625	1.225
	2648	1"	19.05	22.35	4.76	41.28	46.02	41.28	31.12
			0.750	0.880	0.188	1.625	1.812	1.625	1.225

General purpose multi hole cable glands

MSG-M Series



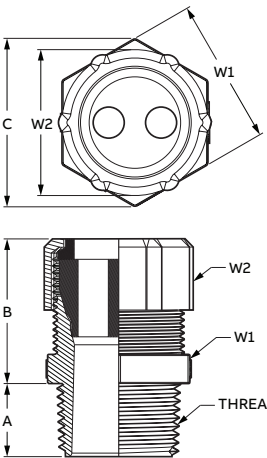
Features and benefits:

- Multi conductor clamping feature
- Full length bushing seal, protects cable
- Multi hole bushing options

MSG-M - General purpose Multi Hole cable glands

Approvals & certifications	Conformity Conforms to:	Temperature range
	UL514B	Normal use: -20°C to 105°C (-4°F to 221°F)
IP Rating	Material	
NEMA Type 4x or 6 (With 5262 Series sealing rings)	Steel/Zinc construction	
Wet and dry locations	Neoprene sealing ring	
	Nylon or stainless steel retaining ring	
Fire		
NFPA 70 (ANSI)		

Dimensions

					Nominal dimensions (mm/in)				
NPT thread	Part no.	NPT thread	No. of Holes	Cord Diameter	A Min	B Min	C Min	W1	W2
	2520-2	1/2"	2	5.59	15.62	27.23	28.58	25.40	26.21
				0.220	0.615	1.072	1.125	1.000	1.032
	2530-2	3/4"	2	5.59	15.93	28.52	32.99	25.40	31.12
				0.220	0.627	1.123	1.299	1.000	1.225
	2531-2	3/4"	2	6.60	15.93	28.52	36.65	25.40	31.12
				0.260	0.627	1.123	1.443	1.000	1.225
	2531-3	3/4"	3	6.60	15.93	28.52	36.65	25.40	31.12
				0.260	0.627	1.123	1.443	1.000	1.225
	2541-2*	1"	2	7.62	20.04	23.62	41.28	38.10	37.97
				0.300	0.789	0.930	1.625	1.500	1.495
	2542-2*	1"	2	9.53	20.04	23.62	41.28	38.10	37.97
				0.560	0.789	0.930	1.625	1.500	1.495
	2540-3	1"	3	5.72	20.04	23.62	41.28	38.10	37.97
				0.225	0.789	0.930	1.625	1.500	1.495
	2541-3	1"	3	7.62	20.04	23.62	41.28	38.10	37.97
				0.300	0.789	0.930	1.625	1.500	1.495
	2540-4	1"	4	5.59	20.04	23.62	41.28	38.10	37.97
				0.220	0.789	0.930	1.625	1.500	1.495
	2555-2	1 1/4"	2	12.70	20.42	39.93	53.16	49.20	48.54
				0.804	0.804	1.572	2.093	1.937	1.911

304 Stainless Steel, general purpose, corrosion resistant cable glands

SSG Series



Features and benefits:

- Large cable clamping range
- Liquid tight mechanical grip
- High Corrosion Resistance
- Straight, and 90 options
- Full length bushing seal, protects cable

SSG Series - General purpose, corrosion resistant cable glands

Approvals & certifications



Conformity

Conforms to:

UL514B

CSA C22.2-18.3

ANSI C33.84

NFPA 70 (ANSI)

Temperature range

Normal use: -20°C to 105°C (-4°F to 221°F)

IP Rating

NEMA Type 4x or 6
(With 5262 Series sealing rings)

Wet and dry locations

Material

Stainless steel 304 construction

Thermoplastic elastomer sealing

Nylon retaining ring

Fire

NFPA 70 (ANSI)

Dimensions

NPT thread	Part no.	NPT thread	Cable size		Nominal dimensions (mm/in)				
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
	2920SST	1/2"	3.18	9.53	15.49	33.66	32.99	28.58	28.58
			0.125	0.375	0.610	1.325	1.299	1.125	1.125
	2921SST	1/2"	7.87	14.22	15.49	33.66	32.99	28.58	28.58
			0.310	0.560	0.610	1.325	1.299	1.125	1.125
	2922SST	1/2"	12.70	19.05	15.49	35.38	36.65	28.58	31.75
			0.500	0.750	0.610	1.393	1.443	1.125	1.250
	2930SST	3/4"	3.18	9.53	16.00	36.40	36.65	31.75	31.75
			0.125	0.375	0.630	1.433	1.443	1.250	1.250
	2931SST	3/4"	7.87	14.22	16.00	36.40	36.65	31.75	31.75
			0.310	0.560	0.630	1.433	1.443	1.250	1.250
	2932SST	3/4"	12.70	19.05	16.00	36.40	36.65	31.75	31.75
			0.500	0.750	0.630	1.433	1.443	1.250	1.250
	2940SST	1"	7.87	14.22	19.94	35.38	43.99	38.10	31.75
			0.310	0.560	0.785	1.393	1.732	1.500	1.250
	2941SST	1"	12.70	19.05	19.94	35.38	43.99	38.10	31.75
			0.500	0.750	0.785	1.393	1.732	1.500	1.250
	2942SST	1"	17.78	24.13	19.94	36.40	43.99	38.10	38.10
			0.700	0.950	0.785	1.433	1.732	1.500	1.500

Aluminum cable glands for general purpose

ASG Series



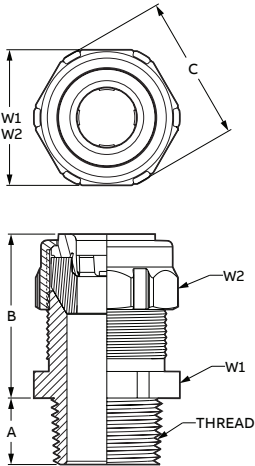
Features and benefits:

- Large cable clamping range
- Liquid tight mechanical grip
- Full length bushing seal, protects cable

ASG Series - Aluminum cable glands

Approvals & certifications		Conformity		Temperature range	
		Conforms to:		Normal use: -20°C to 105°C (-4°F to 221°F)	
		UL514B			
		CSA C22.2-18.3			
		ANSI C33.84			
		NFPA 70-1978 (ANSI)			
		IP Rating		Material	
		NEMA 3R, 4, 6, 13 (With 5262 Series sealing rings)		Aluminium construction	
		Wet and dry locations		Thermoplastic elastomer sealing	
				Nylon retaining ring	
		Fire			
		NFPA 70 (ANSI)			

Dimensions

NPT	Part no.	NPT thread	Cable range		Nominal dimensions (mm/in)				
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
	2920AL	1/2"	3.18	9.53	15.56	32.69	34.24	25.40	29.64
			0.125	0.375	0.613	1.287	1.348	1.000	1.167
	2921AL	1/2"	7.87	14.22	15.56	32.69	34.24	25.40	29.64
			0.310	0.560	0.613	1.287	1.348	1.000	1.167
	2922AL	1/2"	12.70	19.05	15.56	28.89	37.47	31.75	32.44
			0.500	0.750	0.613	1.138	1.475	1.250	1.277
	2930AL	3/4"	3.18	9.53	15.94	34.10	37.47	31.75	32.44
			0.125	0.375	0.628	1.343	1.475	1.250	1.277
	2931AL	3/4"	7.87	14.22	15.94	34.10	37.47	31.75	32.44
			0.310	0.560	0.628	1.343	1.475	1.250	1.277
	2932AL	3/4"	12.70	19.05	15.94	34.10	37.47	31.75	32.44
			0.500	0.750	0.628	1.343	1.475	1.250	1.277
	2940AL	1"	7.87	14.22	20.04	34.57	41.66	38.10	31.17
			0.310	0.560	0.789	1.361	1.640	1.500	1.227
	2941AL	1"	12.70	19.05	20.04	34.57	41.66	38.10	32.44
			0.500	0.750	0.789	1.361	1.640	1.500	1.277
	2942AL	1"	17.78	24.13	20.04	41.40	44.73	38.10	38.74
			0.700	0.950	0.789	1.630	1.761	1.500	1.525

Aluminum 90°elbow cable glands for general purpose
ASG Series



- Features and benefits:**
- Large cable clamping range
 - Liquid tight mechanical grip
 - Full length bushing seal, protects cable
 - Elbow construction for compact installations

ASG Series - Aluminum 90°elbow cable glands

Approvals & certifications		Conformity		Temperature range	
 		Conforms to:		Normal use: -20°C to 105°C (-4°F to 221°F)	
		UL514B			
		CSA C22.2-18.3			
		ANSI C33.84			
		NFPA 70-1978 (ANSI)			
		IP Rating		Material	
		NEMA 3R, 4, 6, 13 (With 5262 Series sealing rings)		Aluminium construction	
		Wet and dry locations		Thermoplastic elastomer sealing	
				Nylon retaining ring	
		Fire			
		NFPA 70-1978 (ANSI)			

Dimensions

NPT	Part no.	NPT thread	Cable range		Nominal dimensions (mm/in)				
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
	4960AL	1/2"	3.18	9.53	17.48	44.45	30.18	27.00	29.64
			0.125	0.375	0.688	1.750	1.188	1.063	1.167
	4961AL	1/2"	9.14	14.22	17.48	44.45	30.18	27.00	29.64
			0.360	0.560	0.613	1.750	1.188	1.063	1.167
	4970AL	3/4"	3.18	9.53	17.27	45.24	38.38	33.50	32.44
			0.125	0.375	0.680	1.781	1.511	1.319	1.277
	4971AL	3/4"	7.87	14.22	17.27	45.24	38.38	33.50	32.44
			0.310	0.560	0.680	1.781	1.511	1.319	1.277
	4972AL	3/4"	12.70	19.05	17.27	45.24	38.38	33.50	32.44
			0.500	0.750	0.680	1.781	1.511	1.319	1.277
	4980AL	1"	7.87	14.22	19.84	51.59	45.82	39.70	32.44
			0.310	0.560	0.781	2.031	1.475	1.250	1.277
	4981AL	1"	12.70	19.05	19.84	51.59	45.82	39.70	32.44
			0.500	0.750	0.789	2.031	1.475	1.250	1.277
	4982AL	1"	17.78	24.13	20.65	68.28	39.70	39.70	38.74
			0.700	0.950	0.813	2.688	1.563	1.563	1.525

Wire mesh grips, used with the MSG and ASG series cable glands

WMG-PC Series



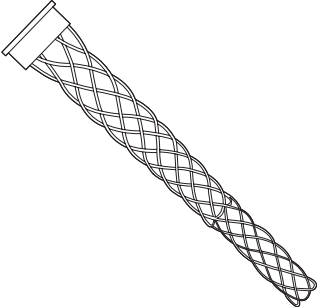
Features and benefits:

- Prevents severe cord bends and pullouts
- Used in aluminum or steel cable glands

WMG-PC Series - Wire mesh grips,

Approvals & certifications		Conformity Conforms to:		Temperature range	
		UL514B		Refer to the cable gland used	
		CSA C22.2-18.3			
		IP Rating		Material	
		Refer to the cable gland used		Wire mesh made of stainless steel	
				Aluminum retaining ring	

Dimensions

NPT	Part no.	Cable range		Straight		45°	90°	
		Min. (mm/in)	Max. (mm/in)	ASG	MSG	MSG-45	ASG-90	MSG-90
	WMG-PC1	4.75	6.35	2920AL	2520	2200	4960AL	2267
		0.187	0.250					
	WMG-PC2	6.35	9.53	2920AL	2521	2201	4960AL	2268
		0.250	0.375					
	WMG-PC3	9.53	12.70	2921AL	2522	2202	4961AL	2269
		0.375	.500					
	WMG-PC4	12.70	15.88	2922AL	2524	2204	4962AL	2250
		0.500	0.625	2932AL	2534	2209	4972AL	2273
				2941AL	2544	2214	4681AL	2255
	WMG-PC5	15.88	19.05	2922AL	2525	2205	4962AL	2251
		0.625	0.750	2932AL	2535	2210	4972AL	2274
				2941AL	2545	2215	4681AL	2256
	WMG-PC6	4.75	6.35	2930AL	2530	2206	4970AL	2252
		0.187	0.250					
	WMG-PC7	6.35	9.53	2930AL	2531	2207	4970AL	2271
		0.250	0.375		2541			
	WMG-PC8	9.53	12.70	2931AL	2532	2208	4961AL	2272
		0.250	0.375	2940AL	2542	2213	4980AL	2254
	WMG-PC9	19.05	22.22	2942AL	2536	2211	4982AL	2253
		0.750	0.875		2546	2216		2275

Wire mesh grips, used with the MSG and ASG series cable glands

WMG-PC Series

Dimensions

NPT	Part no.	Cable range		Straight		45°	90°		
		Min. (mm/in)	Max. (mm/in)	ASG	MSG	MSG-45	ASG-90	MSG-90	
	WMG-PC10	22.22	25.40	–	2547	2217	–	2276	
		0.875	1.000						
	WMG-PC11	22.22	25.40	–	2548	2218	–	2257	
		0.875	1.000		2558			2277	
	WMG-PC12	25.40	25.58	–	2548	2218	–	2257	
					2558			2219	2277
		1.000	1.125		2549	2258			
					2559	2278			
	WMG-PC13	28.58	31.75	–	2549	–	–	2219	
		1.125	1.250		2559			2278	
	WMG-PC14	28.58	31.75	–	2556	–	–	2222	
		1.125	1.250		2563			2282	
					2564			2283	
	WMG-PC15	31.75	34.93	–	2564	2222	–	2256	
		1.250	1.375					2283	
	WMG-PC16 *	34.93	38.10	–	2557	2223	–	2280	
		1.375	1.500						
	WMG-PC17 *	28.58	31.75	–	2573	–	–	2284	
		1.125	1.250						
	WMG-PC18 *	31.75	34.93	–	2573	–	–	2284	
		1.250	1.375						
	WMG-PC19 *	34.93	38.10	–	2565	–	–	2285	
		1.375	1.500		2574				
	WMG-PC20 *	31.10	41.28	–	2565	–	–	2285	
		1.500	1.625		2574				
	WMG-PC21 *	41.28	44.45	–	2575	–	–	2286	
		1.625	1.750						
	WMG-PC22 *	44.45	47.63	–	2575	–	–	2286	
		1.750	1.875						

Rail Specific Cable glands

ABB cable glands comply to the latest European safety standard EN45545 and achieve the highest fire performance HL3 rating for both interior and exterior locations, suitable for rail vehicle and infrastructure usage. This range of cable glands can be installed anywhere where low smoke and toxicity combined with wide temperature characteristics, versatile cable clamping and resistance to oils and chemicals may be required.

—
01

For more than 30 years we have worked with the foremost manufacturers and suppliers of public transportation systems throughout the world. We understand not just the standards that you need to work to, but also the industry issues that you face including your customer service delivery expectations.

Our systems perform in a wide variety of environments from high temperature to freezing subzero conditions, as well as withstanding constant vibrations, water ingress, offer corrosion resistance. They are also available in halogen free, low smoke and low toxicity materials. If your project involves rail stations, infrastructure, signalling, tunnels, surveillance or data and information systems, our experience can help you.

Product examples

- RBCG Series – Rail Brass Cable Glands
- RNCG Series – Rail Nylon Cable Gland
- RBSG Series – Rail Stackable Nickel Plated Brass

—
01



Nylon cable glands - rail specific EN45545
RNCG Series

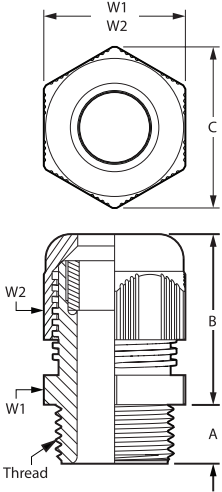


- Features and benefits:**
- EN45545-2 Compliant HL3 for R22 and R23 usage
 - Lightweight nylon construction
 - Large capacity sealing range
 - Corrosion resistant

RNCG Series - Nylon cable glands

Approvals & certifications		Conformity		Temperature range	
		Conforms to:		Normal use: -40°C to +100°C (-40°F to +212°F)	
		EN 45545-2, HL3 (R22 and R23)		Short Term: -40°C to +120°C (-40°F to +248°F)	
		EN 62444			
			IP Rating	Material	
			IP66	All materials EN 45545-2 compliant to HL3 for category R22 and R23 use	
			IP68 (5-Bar 30 mins)		
			IP69		
				Low smoke zero halogen EPDM seals	
			Fire		
			EN 45545-2 HL3	Low smoke zero halogen nylon body and cap	

Dimensions

Metric thread	Part no.	Metric thread	Cable range		Nominal dimensions (mm/in)				
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
	RNCG-M122	M12x1.5	3.0	6.5	8.0	23.0	16.9	15.0	15.0
			0.118	0.256	0.315	0.906	0.665	0.591	0.591
	RNCG-M163-S	M16x1.5	4.0	8.0	8.0	26.5	21.9	19.0	19.0
			0.157	0.315	0.315	1.043	0.862	0.748	0.748
	RNCG-M163	M16x1.5	4.0	8.0	10.0	26.5	21.9	19.0	19.0
			0.157	0.315	0.394	1.043	0.862	0.748	0.748
	RNCG-M164	M16x1.5	5.0	10.0	10.0	30.0	25.0	22.0	22.0
			0.197	0.394	0.394	1.181	0.984	0.866	0.866
	RNCG-M164-L	M16x1.5	5.0	10.0	15.0	30.0	25.0	22.0	22.0
			0.197	0.394	0.591	1.181	0.984	0.866	0.866
	RNCG-M202	M20x1.5	6.0	12.0	10.0	30.0	27.0	24.0	24.0
			0.236	0.472	0.394	1.181	1.063	1.945	1.945
	RNCG-M202x-L	M20x1.5	6.0	12.0	15.0	30.0	27.0	24.0	24.0
			0.236	0.472	0.591	1.181	1.063	1.945	1.945
	RNCG-M205	M20x1.5	10.0	14.0	10.0	33.5	31.0	27.0	27.0
			0.394	0.551	0.394	1.319	1.22	1.063	1.063
	RNCG-M205-L	M20x1.5	10.0	14.0	15.0	33.5	31.0	27.0	27.0
			0.394	0.551	0.591	1.319	1.22	1.063	1.063
	RNCG-M254	M25x1.5	13.0	18.0	10.0	38.0	38.0	33.0	33.0
			0.512	0.709	0.394	1.496	1.496	1.299	1.299

Nylon cable glands - rail specific EN45545

RNCG Series

Dimensions

Metric thread	Part no.	Metric thread	Cable range		Nominal dimensions (mm/in)				
			Min.	Max.	A Min	B Min	C Min	W1	W2
			(mm/in)	(mm/in)					
	RNCG-M254-L	M25x1.5	13.0	18.0	18.0	38.0	38.0	33.0	33.0
			0.512	0.709	0.709	1.496	1.496	1.299	1.299
	RNCG-M324-L	M32x1.5	18.0	25.0	15.0	42.0	47.3	42.0	42.0
			0.709	0.984	0.591	1.654	1.862	1.654	1.654
	RNCG-M404x	M40x1.5	22.0	32.0	18.0	52.0	60.0	53.0	53.0
			0.866	1.26	0.709	2.047	2.362	2.087	2.087

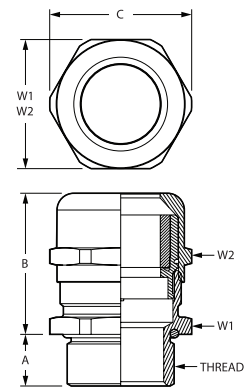
Brass cable glands - rail specific EN45545
RBCG Series



RBCG Series - Brass cable glands

Approvals & certifications		Conformity		Temperature range	
		Conforms to:		Normal use: -40°C to +100°C (-40°F to +212°F)	
		EN 45545-2, HL3 (R22 and R23)		Short Term: -40°C to +120°C (-40°F to +248°F)	
		EN 62444			
			IP Rating	Material	
			IP66	All materials EN 45545-2 compliant to HL3 for category R22 and R23 use	
			IP68 (5-Bar 30 mins)		
			IP69		
				Nickel plated brass body and cap	
			Fire	Low smoke zero halogen EPDM seals	
			EN 45545-2 HL3	Low smoke zero halogen nylon body and cap	

Dimensions

Metric thread	Part no.	Metric thread	Cable range		Nominal dimensions (mm/in)				
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
	RBCG-M122	M12x1.5	3.0	6.5	12.0	22.0	15.5	14.0	14.0
			0.118	0.256	0.472	0.866	0.61	0.551	0.551
	RBCG-M122-S	M12x1.5	3.0	6.5	6.0	22.0	15.5	14.0	14.0
			0.118	0.256	0.236	0.866	0.61	0.551	0.551
	RBCG-M163	M16x1.5	4.0	8.0	12.0	23.0	20.0	18.0	17.0
			0.157	0.315	0.472	0.906	0.787	0.709	0.669
	RBCG-M163-S	M16x1.5	4.0	8.0	7.0	23.0	20.0	18.0	17.0
			0.157	0.315	0.276	0.906	0.787	0.709	0.669
	RBCG-M164	M16x1.5	5.0	10.0	12.0	28.5	22.0	20.0	20.0
			0.197	0.394	0.472	1.122	0.866	0.787	0.787
	RBCG-M164-S	M16x1.5	5.0	10.0	7.0	28.5	22.0	20.0	20.0
			0.197	0.394	0.276	1.122	0.866	0.787	0.787
	RBCG-M202	M20x1.5	6.0	12.0	12.0	26.0	24.5	22.0	22.0
			0.236	0.472	0.472	1.024	0.965	0.866	0.866
	RBCG-M202-S	M20x1.5	6.0	12.0	8.0	26.0	24.5	22.0	22.0
			0.236	0.472	0.315	1.024	0.965	0.866	0.866
	RBCG-M204	M20x1.5	10.0	14.0	12.0	28.0	26.8	24.0	24.0
			0.394	0.551	0.472	1.102	1.055	0.945	0.945
	RBCG-M204-S	M20x1.5	10.0	14.0	8.0	28.0	26.8	24.0	24.0
			0.394	0.551	0.315	1.102	1.055	0.945	0.945

Brass cable glands - rail specific EN45545

RBCG Series

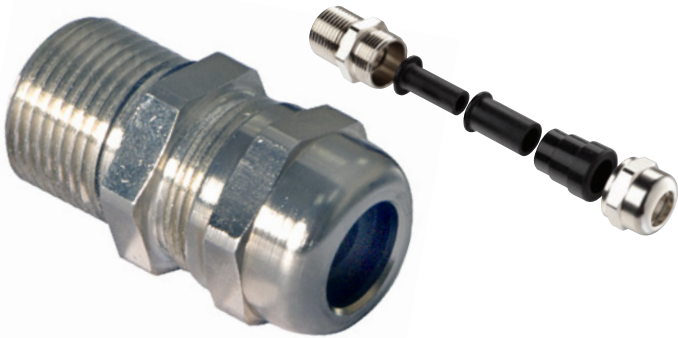
—

Dimensions

Metric thread	Part no.	Metric thread	Cable range		Nominal dimensions (mm/in)				
			Min.	Max.	A Min	B Min	C Min	W1	W2
			(mm/in)	(mm/in)					
	RBCG-M254	M25x1.5	13.0	18.0	12.0	33.0	33.0	30.0	30.0
			0.512	0.709	0.709	1.299	1.299	1.181	1.181
	RBCG-M254-S	M25x1.5	13.0	18.0	8.0	33.0	33.0	30.0	30.0
			0.512	0.709	0.315	1.299	1.299	1.181	1.181
	RBCG-M325	M32x1.5	18.0	25.0	15.0	44.0	44.5	40.0	40.0
			0.709	0.984	0.591	1.732	1.752	1.575	1.575
	RBCG-M325-S	M32x1.5	18.0	25.0	9.0	44.0	44.5	40.0	40.0
			0.709	0.984	0.354	1.732	1.752	1.575	1.575
	RBCG-M405	M40x1.5	22.0	32.0	15.0	52.5	55.5	50.0	50.0
			0.866	1.26	0.591	2.067	2.185	1.185	1.969
	RBCG-M404x	M40x1.5	22.0	32.0	9.0	52.5	55.5	50.0	50.0
			0.866	1.26	0.354	2.067	2.185	1.185	1.185

Stackable brass cable gland - rail specific EN45545

RBSG Series



Features and benefits:

- EN45545-2 Compliant HL3 for R22 and R23 usage
- Robust metallic construction
- Multiple seal bushings for wide clamping range

RBSG Series - Brass cable glands

Approvals & certifications 	Conformity		
	Conforms to:	Temperature range	
	EN 45545-2, HL3 (R22 and R23)	Normal use: -50°C to +125°C (-40°F to +257°F)	
	EN 62444	Short Term: -50°C to +140°C (-40°F to +284°F)	
	IP Rating	Material	
	IP66	All materials EN 45545-2	
	IP68 (5-Bar 30 mins)	compliant to HL3 for category	
	IP69	R22 and R23 use	
		Nickel plated brass body and cap	
	Fire		
	EN 45545-2 HL3		

Dimensions

Metric thread	Part no.	Metric thread	Cable range (mm/in)		Seals range (mm/in)						Nominal dimensions (mm/in)				
			Min.	Max.	S1 Min.	S1 Max.	S2 Min.	S2 Max.	S3 Min.	S3 Max.	A Min	B Min	C Min	W1	W2
	RBSG-M201	M20x1.5	4.0	12.0	9.0	12.0	6.0	9.0	4.0	6.0	9.0	27.0	24.5	22.0	22.0
			0.157	0.472	0.354	0.472	0.236	0.354	0.157	0.236	0.354	1.063	0.965	0.866	0.866
	RBSG-M202	M20x1.5	10.0	16.0	14.5	16.0	12.0	14.5	10.0	12.0	9.0	30.0	31.0	28.0	28.0
			0.394	0.630	0.571	0.630	0.472	0.571	0.394	0.472	0.354	1.181	1.220	1.102	1.102
	RBSG-M251	M25x1.5	4.0	12.0	9.0	12.0	6.0	9.0	4.0	6.0	9.0	27.0	31.0	28.0	22.0
			0.157	0.472	0.354	0.472	0.236	0.354	0.157	0.236	0.354	1.063	1.220	1.102	0.866
	RBSG-M252	M25x1.5	10.0	18.0	14.5	18.0	12.0	14.5	10.0	12.0	9.0	30.5	31.0	28.0	28.0
			0.394	0.709	0.571	0.709	0.472	0.571	0.394	0.472	0.354	1.201	1.220	1.102	1.102
	RBSG-M321	M32x1.5	10.0	18.0	14.5	18.0	12.0	14.5	10.0	12.0	9.0	30.5	39.0	35.0	28.0
			0.394	0.709	0.571	0.709	0.472	0.571	0.394	0.472	0.354	1.201	1.535	1.378	1.102
	RBSG-M322	M32x1.5	14.0	24.0	20.0	24.0	17.0	20.0	14.0	17.0	9.0	33.0	39.0	35.0	35.0
			0.551	0.945	0.787	0.945	0.669	0.787	0.551	0.669	0.354	1.299	1.535	1.378	1.378
	RBSG-M323	M32x1.5	22.0	28.0	27.0	28.0	24.0	27.0	22.0	24.0	9.0	41.0	49.5	45.0	45.0
			0.866	1.102	1.063	1.102	0.945	1.063	0.866	0.945	0.354	1.614	1.949	1.772	1.772
	RBSG-M401	M40x1.5	14.0	24.0	20.0	24.0	17.0	20.0	14.0	17.0	9.0	33.0	50.0	45.0	35.0
			0.551	0.945	0.787	0.945	0.669	0.787	0.551	0.669	0.354	1.299	1.969	1.772	1.378
	RBSG-M402	M40x1.5	22.0	32.0	27.0	32.0	24.0	27.0	22.0	24.0	9.0	40.5	49.5	45.0	45.0
			0.866	1.260	1.063	1.260	0.945	1.063	0.866	0.945	0.354	1.594	1.949	1.772	1.772
	RBSG-M501	M50x1.5	26.0	35.0	31.0	35.0	28.0	31.0	26.0	28.0	9.0	43.5	61.0	55.0	50.0
			1.024	1.378	1.220	1.378	1.102	1.220	1.024	1.102	0.354	1.713	2.402	2.165	1.969
	RBSG-M502	M50x1.5	35.0	44.0	41.0	44.0	38.0	41.0	35.0	38.0	9.0	43.0	70.0	64.0	64.0
			1.378	1.732	1.614	1.732	1.496	1.614	1.378	1.496	0.354	1.693	2.756	2.520	2.520

Food and Beverage

Cable glands

Hygienic, corrosion-resistant cable glands from ABB provide rigorous, dependable electrical connections for food processing machinery and preparation stations.

—
01 Food processing -
Explosion proof (Dust)

—
02 Beverage
manufacture -
Explosion proof
(Vapour)

Along with other products in the ABB electrical connection portfolio, ABB's high quality cable glands can help extend the life of electrical systems in a food and beverage plant's challenging environments while reducing system changeover and downtimes. With high ingress protection ratings and corrosion-resistant stainless steel or nylon construction, ABB glands can withstand a plant's toughest challenges, even in areas that require frequent washdowns.

Products that are particularly attractive to food and beverage processors include the NSF approved FSCG stainless steel gland series, allowing the safe termination of cables into equipment, and the NSF approved FSEM stainless steel EMC gland series, where grounding continuity for a shielded cable is required. Both are IP rated to IP69.

—
01



—
02



Stainless steel cable glands - NSF approved food and beverage cable glands

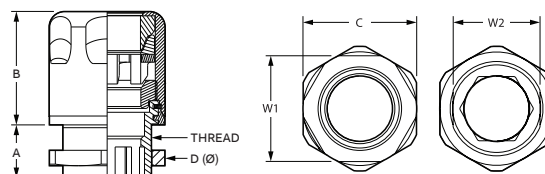
FSCG Series



FSCG Series - NSF approved cable glands

Features and benefits:

- Smooth hygienic external casing
- One piece, fully enclosed
- Suitable for splash zones
- Corrosion resistant



Approvals & certifications



Conformity

Conforms to:

NSF - 169-2012

UL514B / CSA C22.2 No 18.3

Temperature range

Normal use: -20°C to +100°C (-40°F to +212°F)

Short Term: -40°C to +150°C (-40°F to +302°F)

IP Rating

IP66

IP68 (5-Bar 30 mins)

IP69 (Steam cleaning)

Material

Stainless Steel construction

FDA Compliant EPDM Seals

Dimensions

Metric thread	Part no.	Metric thread	Cable range		Nominal dimensions (mm/in)					
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	D Min	W1	W2
FSCG-M121	M12x1.5		3.0	6.5	6.0	21.3	15.6	16.5	14.0	10.0
			0.118	0.256	0.236	0.839	0.614	0.650	0.551	0.394
FSCG-M161	M16x1.5		5.0	10.0	7.0	23.1	20.2	21.0	18.0	14.0
			0.197	0.394	0.276	0.909	0.795	0.827	0.709	0.551
FSCG-M201	M20x1.5		6.0	12.0	10.0	26.7	24.1	26.4	22.0	18.0
			0.236	0.472	0.394	1.051	0.949	1.039	0.866	0.709
FSCG-M251	M25x1.5		12.0	17.0	14.0	29.1	30.1	33.0	28.0	23.0
			0.472	0.669	0.551	1.146	1.185	1.299	1.102	0.906

NPT thread	Part no.	NPT thread	Cable range		Nominal dimensions (mm/in)					
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	D Min	W1	W2
FSCG-0381	3/8"		3.0	6.5	15.26	21.2	20.2	26.5	18.0	14.0
			0.118	0.256	0.601	0.835	0.795	1.043	0.709	0.551
FSCG-0382	3/8"		5.0	10.0	15.26	23.7	24.1	26.5	22.0	14.0
			0.197	0.394	0.601	0.933	0.949	1.043	0.866	0.551
FSCG-0501	1/2"		6.0	12.0	19.85	28.0	30.1	26.5	28.0	18.0
			0.236	0.472	0.781	1.102	1.185	1.043	1.102	0.709
FSCG-0751	3/4"		12.0	17.0	20.15	31.6	38.0	39.0	35.0	23.0
			0.472	0.669	0.793	1.244	1.496	1.535	1.378	0.906

Stainless steel cable glands - EMC NSF approved food and beverage cable glands

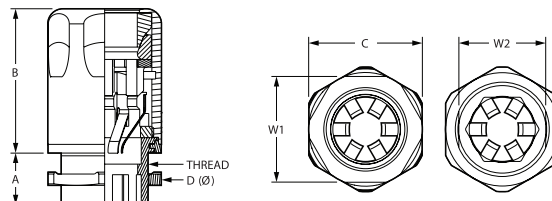
FSEM Series



FSEM Series - NSF approved cable glands

Features and benefits:

- Smooth hygienic external casing
- One piece, fully enclosed
- Internal continuity contacts
- Corrosion resistant
- Extended radial contact with the shielding for improved EMI protection



Approvals & certifications



Conformity

Conforms to:

NSF - 169-2012

UL514B / CSA C22.2 No 18.3

Temperature range

Normal use: -20°C to +100°C (-8°F to +212°F)

Short Term: -40°C to +150°C (-40°F to +302°F)

IP Rating	Material
IP66	Stainless Steel construction
IP67	FDA Compliant EPDM Seals
IP68 (5-Bar 30 mins)	
IP69 (Steam Cleaning)	

Dimensions

Metric thread	Part no.	Metric thread	Cable range		Nominal dimensions (mm/in)					
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	D Min	W1	W2
	FSEM-M161	M16x1.5	5.0	10.0	7.0	28.1	20.2	21.0	18.0	14.0
			0.197	0.394	0.276	1.106	0.795	0.827	0.709	0.551
	FSEM-M201	M20x1.5	6.0	12.0	10.0	32.7	24.1	26.5	22.0	18.0
			0.236	0.472	0.394	1.287	0.949	1.043	0.866	0.709
	FSEM-M251	M25x1.5	12.0	17.0	14.0	37.9	30.1	33.0	28.0	23.0
			0.472	0.669	0.551	1.492	1.185	1.299	1.102	0.906

NPT thread	Part no.	NPT thread	Cable range		Nominal dimensions (mm/in)					
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	D Min	W1	W2
	FSEM-0381	3/8"	5.0	10.0	15.26	28.6	24.1	26.5	22.0	14.0
			0.197	0.394	0.601	1.126	0.949	1.043	0.866	0.551
	FSEM-0501	1/2"	6.0	12.0	19.85	33.2	30.1	26.5	28.0	18.0
			0.236	0.472	0.781	1.307	1.185	1.043	1.102	0.709
	FSEM-0751	3/4"	12.0	17.0	20.15	39.1	38.0	39.0	35.0	23.0
			0.472	0.669	0.793	1.539	1.496	1.535	1.378	0.906

Hazardous area

Cable glands

ABB products protect critical data and power cables in hazardous areas onshore and offshore.

- 01 C1 Series
- 02 ISR Series
- 03 STEX Series

Whether it is data cables from a gas detector or the cable protection on a power transmission unit, ABB hazardous area cable glands are designed and manufactured to meet the demands of rigorous and arduous operating environments in addition to ATEX and IECEx standards.

ABB’s hazardous area cable glands are suitable for use with a range of cable types on applications such as:

- Skids
- Control boxes
- Motors
- Lighting

Product examples

Cable type	Standard gland	Barrier gland
Non armored	EXCG (Non-metallic)	C4 Series
	C2 Series	
	ISR (Mechanical grip)	
	C3 Series	
Wire armored	C1 Series (Double compression)	C5 Series
MC armored	ST	STX
	STE (High range)	
EMC	C6 Series	
Flat	C2F Series (Heat trace)	
	C6F Series (Heat trace)	

01



02



03



HAZARDOUS AREA CABLE GLANDS

ABB hazardous area cable glands are designed and manufactured to meet the demands of rigorous and arduous operating environments.



Cable glands for hazardous areas

Selection guide

Selection guide



	Non-armored cable types						Armored cable types		
Type	EXCG	C2/C2F	C3	C6/C6F	C4	ISR	TCF	C1	C5
General									
Commercial Building	–	–	–	–	–	•	•	–	–
Residential Building	–	–	–	–	–	–	•	–	–
Industrial MRO	–	–	–	–	–	•	•	•	–
Low Ingress	–	–	–	–	–	–	–	–	–
OEM									
General Applications	•	–	–	–	–	–	•	–	–
Industrial Machinery	•	•	–	–	–	•	•	•	–
Commerical Machinery	–	–	–	–	–	•	–	–	–
Panel Building	•	•	–	–	–	–	•	–	–
Lighting	•	•	–	–	–	–	–	–	–
Rail									
Traction - Exterior	–	–	–	–	–	–	–	–	–
Traction - Interior	–	–	–	–	–	–	–	–	–
Infrastructure - Exterior	–	–	–	–	–	–	–	–	–
Infrastructure - Interior	–	–	–	–	–	–	–	–	–
Automation									
Robotics	–	•	–	•	–	–	–	–	–
Control systems	–	•	–	•	–	–	–	–	–
Enclosures and Motors	–	•	–	•	–	–	–	–	–
Marine									
General Applications	•	•	•	•	•	•	–	•	•
Outdoor Applications	•	•	•	•	•	•	–	•	•
Passenger/Crew Areas	•	•	•	•	•	•	–	•	•
Oil and Gas									
IEC standards	•	•	•	•	•	•	–	•	•
NEC Standards	–	•	–	•	–	•	•	•	–
Other									
Solar	–	–	–	–	–	–	–	–	–
Food and Beverage	–	•	–	–	–	–	–	•	–
Chemical Plants	–	•	•	•	–	•	–	•	–
Data Centres	–	–	–	•	–	•	•	–	–
Waste Water Management	–	•	•	•	•	•	–	•	•
Page No.	64	65/68	70	72/75	77	79	81	83	86



Metal clad cable types



Accessories

ST	STE	STED	STX	STEX	Stopping Plugs	Ex Stopping Plugs	Thread Adaptors	Ex Thread Adaptors	Ex Drain Valves
•	•	•	-	-	•	-	•	-	-
-	-	-	-	-	•	-	-	-	-
•	•	•	•	•	•	-	•	-	-
-	-	-	-	-	•	-	•	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	•	-	•	-	-
-	-	-	-	-	•	•	•	•	•
-	-	-	-	-	•	-	•	-	-
-	-	-	-	-	•	-	•	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	•	-	•	-	-
-	-	-	-	-	•	-	•	-	-
-	-	-	-	-	•	-	•	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	•	•	•	•	•
-	-	-	-	-	•	•	•	•	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	•	•	•	•	•
•	•	•	•	•	•	•	•	•	-
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	•
-	-	-	-	-	•	•	•	•	•
-	-	•	-	-	•	-	•	-	-
-	•	-	-	•	-	•	-	•	•
87	89	90	91	93	94	96	99	101	102

Ex e Nylon cable glands for hazardous areas

EXCG Series



Features and benefits:

- Increased safety Ex e
- Suitable for use in Zone 1, 2, 21 and 22
- For use with non-armored circular cable types
- Can be used for Ex ia intrinsically safe, with blue cap

EXCG Series - Nylon cable glands

Approvals & certifications		Conformity	Temperature range	
		EN/IEC: 60079-0, 60079-7, 60079-34, 62444 ATEX: IMQ13ATEX016X IECEx: IECEx IMQ 13.0005X Ⓜ II 2 GD, Ex e IIC Gb, Ex tb IIIC Db	Operating range: -40°C to +80°C	
			IP Rating	Material
			IP66	Nylon
			IP68	

Dimensions

Metric thread	Part no.	Metric thread	Cable range		Nominal dimensions (mm/in)			
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	W1	W2
	EXCGM20S	M20	6.0	12.0	10.0	40.0	24.0	24.0
			0.236	0.472	0.393	1.574	0.944	0.944
	EXCGM20SL	M20	6.0	12.0	15.0	45.0	24.0	24.0
			0.236	0.472	0.590	1.771	0.944	0.944
	EXCGM20M	M20	10.0	14.0	10.0	42.0	27.0	27.0
			0.393	0.551	0.393	1.653	1.062	1.062
	EXCGM20ML	M20	10.0	14.0	15.0	50.0	27.0	27.0
			0.393	0.551	0.590	1.968	1.062	1.062
	EXCGM25S	M25	13.0	18.0	10.0	47.0	33.0	33.0
			0.511	0.708	0.393	1.850	1.299	1.299
	EXCGM25SL	M25	13.0	18.0	15.0	50.0	33.0	33.0
			0.511	0.708	0.590	1.968	1.299	1.299
	EXCGM25M	M25	11.0	17.0	8.0	42.5	29.0	29.0
			0.433	0.669	0.314	1.673	1.141	1.141
	EXCGM32S	M32	15.0	21.0	10.0	50.0	36.0	36.0
			0.590	0.826	0.393	1.968	1.417	1.417
	EXCGM32M	M32	18.0	25.0	15.0	68.0	42.0	42.0
			0.708	0.984	0.590	2.677	1.653	1.653
	EXCGM40S	M40	19.0	28.0	10.0	55.0	46.0	46.0
			0.748	1.102	0.393	2.165	1.811	1.811
	EXCGM40M	M40	22.0	32.0	18.0	68.0	53.0	53.0
			0.866	1.259	0.708	2.677	2.086	2.086
	EXCGM50S	M50	30.0	38.0	18.0	73.0	60.0	60.0
			1.181	1.496	0.708	2.874	2.362	2.362
	EXCGM63S	M63	34.0	44.0	18.0	74.0	65.0	65.0
			1.338	1.732	0.708	2.913	2.559	2.559

Ex d e Non-armored cable glands for hazardous areas

C2 Series



Features and benefits:

- Flameproof Ex d and Increased safety Ex e
- Suitable for use in Zone 1, 2, 21 and 22
- For use with non-armored circular cable types
- Wide cable range
- Deluge proof

Available in kit form with locknut, earth tag, sealing washer and dust shroud, add 'K' suffix.

C2 Series - Ex d e single compression cable glands

Approvals & certifications		Conformity		Temperature range	
		Conforms to:		Operating range: -40°C to +100°C (-40°F to +212°F)	
		EN/IECEX: 60079-0, 60079-1, 60079-7, 60079-34, 62444			
		UL514B, UL2225			
		ATEX: IMQ14ATEX013X			
		IECEX: IECEX IMQ 14.0005X			
		EACEX: RU C-GB.AA87.B.00198			
		CNEX: CNEX15.1696X			
		DNV: TAE00000Y3			
		UL: E477121			
		Ⓜ II 2 GD, Ex d e IIC Gb, Ex tb IIIC Db			
		Class 1 Zone 1 AEx e IIC			
				IP Rating	Material
				IP66	Nickel plated brass
				IP68 (5-Bar 30 mins)	Stainless steel 316

Dimensions

Metric thread	Part no.	Metric thread	Cable range Ø		Nominal dimensions (mm/in)				
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
	EXN03MMC2	M16x1.5	4.0 0.157	12.0 0.472	16.0 0.63	31.0 1.22	24.0 0.945	22.0 0.866	22.0 0.866
	EXN04MSC2	M20x1.5	3.0 0.118	9.0 0.354	16.0 0.63	27.0 1.063	24.0 0.945	22.0 0.866	20.0 0.787
	EXN04MMC2	M20x1.5	4.0 0.157	12.0 0.472	16.0 0.63	27.0 1.063	24.0 0.945	22.0 0.866	22.0 0.866
	EXN04MLC2	M20x1.5	10.0 0.394	16.0 0.63	16.0 0.63	30.0 1.181	31.0 1.22	28.0 1.102	28.0 1.102
	EXN05MMC2	M25x1.5	10.0 0.394	18.0 0.709	16.0 0.63	30.5 1.201	31.0 1.22	28.0 1.102	28.0 1.102
	EXN05MLC2	M25x1.5	14.0 0.551	20.0 0.787	16.0 0.63	34.0 1.339	39.0 1.535	35.0 1.378	35.0 1.378
	EXN06MMC2	M32x1.5	14.0 0.551	24.0 0.945	16.0 0.63	33.0 1.299	39.0 1.535	35.0 1.378	35.0 1.378
	EXN06MLC2	M32x1.5	22.0 0.866	28.0 1.102	16.0 0.63	41.0 1.614	50.0 1.969	45.0 1.772	45.0 1.772
	EXN07MMC2	M40x1.5	22.0 0.866	32.0 1.26	18.0 0.709	41.0 1.614	50.0 1.969	45.0 1.772	45.0 1.772

Ex d e Non-armored cable glands for hazardous areas

C2 Series

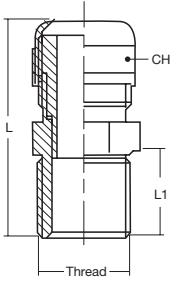
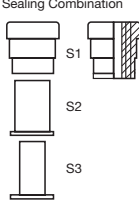
Dimensions

Metric thread	Part no.	Metric thread	Cable range Ø		Nominal dimensions (mm/in)				
			Inner Min. (mm/in)	Outer Max. (mm/in)	A Min	B Min	C Min	W1	W2
	EXN07MLC2	M40x1.5	26.0	34.0	18.0	44.0	55.5	50.0	50.0
			1.024	1.339	0.709	1.732	2.185	1.969	1.969
	EXN08MSC2	M50x1.5	26.0	35.0	18.0	44.0	61.0	55.0	50.0
			1.024	1.378	0.709	1.732	2.402	2.165	1.969
	EXN08MMC2	M50x1.5	35.0	44.0	18.0	43.0	70.0	64.0	64.0
			1.378	1.732	0.709	1.693	2.756	2.52	2.52
	EXN09MSC2	M63x1.5	35.0	45.0	18.0	43.0	75.0	68.0	64.0
			1.378	1.772	0.709	1.693	2.953	2.677	2.52
	EXN09MMC2	M63x1.5	46.0	56.0	18.0	52.5	89.0	75.0	80.0
			1.811	2.205	0.709	2.067	3.504	2.953	3.15
	EXN10MSC2	M75x1.5	46.0	62.0	20.0	52.0	89.0	80.0	80.0
			1.811	2.441	0.787	2.047	3.504	3.15	3.15
	EXN10MMC2	M75x1.5	60.0	69.0	20.0	55.0	105.0	95.0	95.0
			2.362	2.717	0.787	2.165	4.134	3.74	3.74
	EXN11MSC2	M90x1.5	60.0	75.0	20.0	55.0	105.0	95.0	95.0
			2.362	2.953	0.787	2.165	4.134	3.74	3.74
	EXN11MMC2	M90x1.5	75.0	82.0	20.0	55.0	117.0	105.0	105.0
			2.953	3.228	0.787	2.165	4.606	4.134	4.134

Ex d e Non-armored cable glands for hazardous areas

C2 Series

Dimensions

NPT thread	Part no.	NPT thread	Cable range Ø		Nominal dimensions (mm/in)				
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
	EXN03AMC2	3/8"	4.0	12.0	16.0	31.0	24.0	22.0	22.0
			0.157	0.472	0.63	1.22	0.945	0.866	0.866
	EXN04ASC2	1/2"	3.0	9.0	16.0	27.0	24.0	22.0	20.0
			0.118	0.354	0.63	1.063	0.945	0.866	0.787
	EXN04AMC2	1/2"	4.0	12.0	16.0	27.0	24.0	22.0	22.0
			0.157	0.472	0.63	1.063	0.945	0.866	0.866
	EXN04ALC2	1/2"	10.0	16.0	16.0	30.0	31.0	28.0	28.0
			0.394	0.63	0.63	1.181	1.22	1.102	1.102
	EXN05AMC2	3/4"	10.0	18.0	16.0	30.5	31.0	28.0	28.0
			0.394	0.709	0.63	1.201	1.22	1.102	1.102
	EXN05ALC2	3/4"	14.0	20.0	16.0	34.0	39.0	35.0	35.0
			0.551	0.787	0.63	1.339	1.535	1.378	1.378
	EXN06AMC2	1"	14.0	24.0	20.0	33.0	39.0	35.0	35.0
			0.551	0.945	0.787	1.299	1.535	1.378	1.378
	EXN06ALC2	1"	22.0	28.0	20.0	41.0	50.0	45.0	45.0
			0.866	1.102	0.787	1.614	1.969	1.772	1.772
	EXN07AMC2	1 1/4"	22.0	32.0	20.0	41.0	50.0	45.0	45.0
			0.866	1.26	0.787	1.614	1.969	1.772	1.772
	EXN07ALC2	1 1/4"	26.0	34.0	20.0	44.0	55.5	50.0	50.0
			1.0	1.3	0.8	1.7	2.2	2.0	2.0
	EXN08ASC2	1 1/2"	26.0	35.0	20.0	44.0	61.0	55.0	50.0
			1.0	1.4	0.8	1.7	2.4	2.2	2.0
	EXN08AMC2	1 1/2"	35.0	44.0	20.0	43.0	70.0	64.0	64.0
			1.4	1.7	0.8	1.7	2.8	2.5	2.5
	EXN09ASC2	2"	35.0	45.0	20.0	43.0	75.0	68.0	64.0
			1.4	1.8	0.8	1.7	3.0	2.7	2.5
	EXN09AMC2	2"	46.0	56.0	20.0	52.5	89.0	75.0	80.0
			1.8	2.2	0.8	2.1	3.5	3.0	3.2
	EXN10ASC2	2 1/2"	46.0	62.0	21.0	52.0	89.0	80.0	80.0
			1.8	2.4	0.8	2.0	3.5	3.2	3.2
	EXN10AMC2	2 1/2"	60.0	69.0	21.0	55.0	105.0	95.0	95.0
			2.4	2.7	0.8	2.2	4.1	3.7	3.7
	EXN11ASC2	3"	60.0	75.0	21.0	55.0	105.0	95.0	95.0
			2.4	3.0	0.8	2.2	4.1	3.7	3.7
	EXN11AMC2	3"	75.0	82.0	21.0	55.0	117.0	105.0	105.0
			3.0	3.2	0.8	2.2	4.6	4.1	4.1

C2F Series



Features and benefits:

- Flameproof Ex d and increased safety Ex e
- Suitable for use in Zone 1, 2, 21 and 22
- For use with non-armored flat cable types

Conformity
Conforms to:



EN/IECEX: 60079-0, 60079-1,
60079-7, 60079-34, 62444

ATEX: IMQ14ATEX013X

IECE_x: IECE_x IMQ 14.0005X

EACEx: RU C-GB.AA87.B.00198

CNEx: CNEx15.1696X

DNV: TAE00000Y3

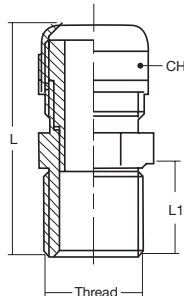
II 2 GD, Ex d e IIC Gb, Ex tb IIIC Db

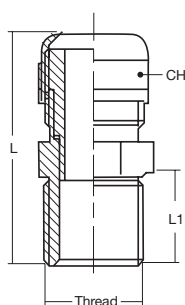
Temperature range

Certified -60°C to $+140^{\circ}\text{C}$

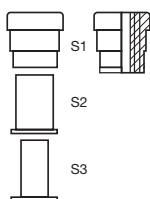
IP Rating	Material
IP66	Nickel plated brass and
IP68 (5-Bar 30 mins)	Stainless steel

Dimensions

Metric thread	Part no.	Metric thread	Min. Length (mm)	Cable range Ø	
				Min. (mm)	Max. (mm)
	EXN04MMAC2F	M20x1.5	16.0	5.0 x 10.0	5.7 x 12.2
	EXN04MMBC2F	M20x1.5	16.0	5.75 x 8.5	6.0 x 10.0
	EXN04MMCC2F	M20x1.5	16.0	5.3 x 11.3	5.5 x 11.7
	EXN04MMDC2F	M20x1.5	16.0	5.3 x 11.3	6.5 x 14.5
	EXN04MMEC2F	M20x1.5	16.0	5.3 x 11.3	6.3 x 10.8
	EXN04MMFC2F	M20x1.5	16.0	5.3 x 11.3	6.7 x 12.7
	EXN05MMAC2F	M25x1.5	16.0	5.0 x 10.4	5.5 x 14.0
	EXN05MMBC2F	M25x1.5	16.0	5.7 x 8.5	6.0 x 10.0
	EXN05MMCC2F	M25x1.5	16.0	5.3 x 11.3	5.5 x 11.7
	EXN05MMDC2F	M25x1.5	16.0	5.5 x 12.0	6.5 x 14.5
	EXN05MMEC2F	M25x1.5	16.0	7.0 x 10.0	9.1 x 12.3
	EXN05MMFC2F	M25x1.5	16.0	5.6 x 10.0	9.0 x 14.0
	EXN05MMGC2F	M25x1.5	16.0	6.5 x 14.8	6.8 x 15.3
	EXN05MMHC2F	M25x1.5	16.0	5.2 x 10.0	7.0 x 12.0



Sealing Combination



Ex d e Flat cable glands for hazardous areas

C2F Series

Dimensions

NPT thread	Part no.	NPT thread	Min. Length (mm)	Cable range Ø	
				Min. (mm)	Max. (mm)
	EXN04AMAC2F	1/2"	16.0	5.0 x 10.0	5.7 x 12.2
	EXN04AMBC2F	1/2"	16.0	5.75 x 8.5	6.0 x 10.0
	EXN04AMCC2F	1/2"	16.0	5.3 x 11.3	5.5 x 11.7
	EXN04AMDC2F	1/2"	16.0	5.3 x 11.3	6.5 x 14.5
	EXN04AMEC2F	1/2"	16.0	5.3 x 11.3	6.3 x 10.8
	EXN04AMFC2F	1/2"	16.0	5.3 x 11.3	6.7 x 12.7
	EXN05AMAC2F	3/4"	16.0	5.0 x 10.4	5.5 x 14.0
	EXN05AMBC2F	3/4"	16.0	5.7 x 8.5	6.0 x 10.0
	EXN05AMCC2F	3/4"	16.0	5.3 x 11.3	5.5 x 11.7
	EXN05AMDC2F	3/4"	16.0	5.5 x 12.0	6.5 x 14.5
	EXN05AMEC2F	3/4"	16.0	7.0 x 10.0	9.1 x 12.3
	EXN05AMFC2F	3/4"	16.0	5.6 x 10.0	9.0 x 14.0
	EXN05AMGC2F	3/4"	16.0	6.5 x 14.8	6.8 x 15.3
	EXN05AMHC2F	3/4"	16.0	5.2 x 10.0	7.0 x 12.0

Ex d e Non-armored cable glands for hazardous areas

C3 Series



Features and benefits:

- Flameproof Ex d and Increased safety Ex e
- Suitable for use in Zone 1, 2, 21 and 22
- For use with non-armored circular cable types
- Deluge proof

Available in kit form with locknut, earth tag, sealing washer and dust shroud, add 'K' suffix.

C3 Series - Ex d e single compression cable glands

Approvals & certifications		Conformity		Temperature range	
		Conforms to:		Operating range: -40°C to +100°C (-40°F to +212°F)	
		EN/IECEX: 60079-0, 60079-1, 60079-7, 60079-34, 62444			
		ATEX: CESI13ATEX041X			
		IECEX: IECEX CES 13.0014X			
		EACEX: RU C-GB.AA87.B.00198			
		CNEX: CNEX15.1692X			
		DNV: TAE00000Y3			
		⊕ II 2 GD, Ex d e IIC Gb, Ex tb IIIC Db			
		IP Rating		Material	
		IP66		Nickel plated brass	
		IP68 (5-Bar 30 mins)		Stainless steel 316	

Dimensions

Metric thread	Part no.	Metric thread	Cable range Ø		Nominal dimensions (mm/in)				
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
	EXN03MSC3	M16x1.5	3.0	8.5	16.0	25.0	29.0	22.0	26.0
			0.118	0.335	0.63	0.984	1.142	0.866	1.024
	EXN03MMC3	M16x1.5	6.0	12.0	16.0	28.5	31.5	25.0	29.0
			0.236	0.472	0.63	1.122	1.24	0.984	1.142
	EXN04MSC3	M20x1.5	6.0	12.0	16.0	27.5	31.5	25.0	29.0
			0.236	0.472	0.63	1.083	1.24	0.984	1.142
	EXN04MMC3	M20x1.5	12.0	14.5	16.0	29.0	33.5	28.0	30.0
			0.472	0.571	0.63	1.142	1.319	1.102	1.181
	EXN05MSC3	M25x1.5	6.0	12.0	18.0	28.5	31.5	29.0	29.0
			0.236	0.472	0.709	1.122	1.24	1.142	1.142
	EXN05MMC3	M25x1.5	12.0	16.0	18.0	28.5	37.0	32.0	35.0
			0.472	0.63	0.709	1.122	1.457	1.26	1.378
	EXN05MLC3	M25x1.5	12.0	20.0	18.0	32.5	44.5	36.0	40.0
			0.472	0.787	0.709	1.28	1.752	1.417	1.575
	EXN06MSC3	M32x1.5	12.0	20.0	18.0	33.5	44.5	40.0	40.0
			0.472	0.787	0.709	1.319	1.752	1.575	1.575
	EXN06MMC3	M32x1.5	15.0	26.0	18.0	41.0	57.0	48.0	52.0
			0.591	1.024	0.709	1.614	2.244	1.89	2.047
	EXN07MSC3	M40x1.5	15.0	26.0	18.0	41.0	57.0	48.0	52.0
			0.591	1.024	0.709	1.614	2.244	1.89	2.047

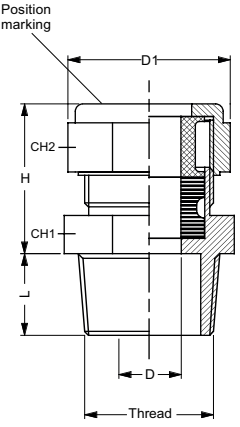
Ex d e Non-armored cable glands for hazardous areas

C3 Series

Dimensions

Metric thread	Part no.	Metric thread	Cable range Ø		Nominal dimensions (mm/in)				
			Inner Min. (mm/in)	Outer Max. (mm/in)	A Min	B Min	C Min	W1	W2
	EXN07MMC3	M40x1.5	20.0	32.0	18.0	50.0	66.0	55.0	60.0
			0.787	1.26	0.709	1.969	2.598	2.165	2.362
	EXN08MSC3	M50x1.5	22.0	35.0	18.0	50.5	77.0	60.0	70.0
			0.866	1.378	0.709	1.988	3.031	2.362	2.756
	EXN08MMC3	M50x1.5	27.0	41.0	18.0	54.0	77.0	70.0	70.0
			1.063	1.614	0.709	2.126	3.031	2.756	2.756
	EXN09MSC3	M63x1.5	35.0	45.0	20.0	61.5	89.5	75.0	80.0
			1.378	1.772	0.787	2.421	3.524	2.953	3.15
	EXN09MMC3	M63x1.5	40.0	52.0	20.0	61.5	94.0	85.0	85.0
			1.575	2.047	0.787	2.421	3.701	3.346	3.346
	EXN10MSC3	M75x1.5	40.0	52.0	20.0	61.5	94.0	85.0	85.0
			1.575	2.047	0.787	2.421	3.701	3.346	3.346
	EXN10MMC3	M75x1.5	45.0	60.0	20.0	72.0	105.0	90.0	95.0
			1.772	2.362	0.787	2.835	4.134	3.543	3.74
	EXN11MSC3	M90x1.5	45.0	60.0	20.0	72.0	105.0	95.0	95.0
			1.772	2.362	0.787	2.835	4.134	3.74	3.74
	EXN11MMC3	M90x1.5	60.0	72.0	20.0	84.0	127.0	110.0	115.0
			2.362	2.835	0.787	3.307	5.000	4.331	4.528

Dimensions

NPT thread	Part no.	NPT thread	Cable range Ø		Nominal dimensions (mm/in)				
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
	EXN03ASC3	3/8"	3.0	8.5	16.0	25.0	29.0	22.0	26.0
			0.118	0.335	0.63	0.984	1.142	0.866	1.024
	EXN03AMC3	3/8"	6.0	12.0	16.0	28.5	31.5	25.0	29.0
			0.236	0.472	0.63	1.122	1.24	0.984	1.142
	EXN04ASC3	1/2"	6.0	12.0	16.0	27.5	31.5	25.0	29.0
			0.236	0.472	0.63	1.083	1.24	0.984	1.142
	EXN04AMC3	1/2"	12.0	14.5	16.0	29.0	33.5	28.0	30.0
			0.472	0.571	0.63	1.142	1.319	1.102	1.181
	EXN05ASC3	3/4"	6.0	12.0	18.0	28.5	31.5	29.0	29.0
			0.236	0.472	0.709	1.122	1.24	1.142	1.142
	EXN05AMC3	3/4"	12.0	16.0	18.0	28.5	37.0	32.0	35.0
			0.472	0.63	0.709	1.122	1.457	1.26	1.378
	EXN05ALC3	3/4"	12.0	20.0	18.0	32.5	44.5	36.0	40.0
			0.472	0.787	0.709	1.28	1.752	1.417	1.575
	EXN06ASC3	1"	12.0	20.0	18.0	33.5	44.5	40.0	40.0
			0.472	0.787	0.709	1.319	1.752	1.575	1.575
	EXN06AMC3	1"	15.0	26.0	18.0	41.0	57.0	48.0	52.0
			0.591	1.024	0.709	1.614	2.244	1.89	2.047
	EXN07ASC3	1 1/4"	15.0	26.0	28.0	41.0	57.0	48.0	52.0
			0.591	1.024	1.102	1.614	2.244	1.89	2.047

Ex d e Non-armored cable glands for hazardous areas

C3 Series

Dimensions

NPT thread	Part no.	NPT thread	Cable range Ø		Nominal dimensions (mm/in)				
			Inner Min. (mm/in)	Outer Max. (mm/in)	A Min	B Min	C Min	W1	W2
	EXN07AMC3	1 1/4"	20.0	32.0	18.0	50.0	66.0	55.0	60.0
			0.787	1.26	0.709	1.969	2.598	2.165	2.362
	EXN08ASC3	1 1/2"	22.0	35.0	18.0	50.5	77.0	60.0	70.0
			0.866	1.378	0.709	1.988	3.031	2.362	2.756
	EXN08AMC3	1 1/2"	27.0	41.0	18.0	54.0	77.0	70.0	70.0
			1.063	1.614	0.709	2.126	3.031	2.756	2.756
	EXN09ASC3	2"	35.0	45.0	20.0	61.5	89.5	75.0	80.0
			1.378	1.772	0.787	2.421	3.524	2.953	3.15
	EXN09AMC3	2"	40.0	52.0	20.0	61.5	94.0	85.0	85.0
			1.575	2.047	0.787	2.421	3.701	3.346	3.346
	EXN10ASC3	2 1/2"	40.0	52.0	20.0	61.5	94.0	85.0	85.0
			1.575	2.047	0.787	2.421	3.701	3.346	3.346
	EXN10AMC3	2 1/2"	45.0	60.0	20.0	72.0	105.0	90.0	95.0
			1.772	2.362	0.787	2.835	4.134	3.543	3.74
	EXN11ASC3	M90x1.5	45.0	60.0	20.0	72.0	105.0	95.0	95.0
			1.772	2.362	0.787	2.835	4.134	3.74	3.74
	EXN11AMC3	M90x1.5	60.0	72.0	20.0	84.0	127.0	110.0	115.0
			2.362	2.835	0.787	3.307	5.000	4.331	4.528

Ex d e EMC cable glands for hazardous areas

C6 Series



Features and benefits:

- Flameproof Ex d and Increased safety Ex e
- Suitable for use in Zone 1, 2, 21 and 22
- For use with shielded circular cable types
- EMC contact to maintain shielding continuity
- Wide cable range
- Deluge proof

C6 Series - Ex d e single compression cable glands

Approvals & certifications		Conformity Conforms to:		Temperature range	
		EN/IECEX: 60079-0, 60079-1, 60079-7, 60079-34, 62444 ATEX: IMQ14ATEX013XIECEX CES IECEX: IECEX IMQ 14.0005X EACEX: RU C-GB.AA87.B.00198 CNEX: CNEX15.1696X DNV: TAE00000Y3 Ⓢ II 2 GD, Ex d e IIC Gb, Ex tb IIIC Db		Operating range: -60°C to +100°C (-76°C to +212°C)	
		IP Rating		Material	
		IP66		Nickel plated brass	
				Stainless steel 316	

Dimensions

Metric thread	Part no.	Metric thread	Cable range Ø		Nominal dimensions (mm/in)				
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
	EXN03MSC6	M16x1.5	4.0 0.157	8.0 0.315	16.0 0.63	28.5 1.122	22.0 0.866	20.0 0.787	20.0 0.787
	EXN03MMC6	M16x1.5	4.0 0.157	8.0 0.315	16.0 0.63	28.5 1.122	24.5 0.965	22.0 0.866	22.0 0.866
	EXN04MMC6	M20x1.5	4.0 0.157	12.0 0.472	18.0 0.709	27.0 1.063	24.5 0.965	22.0 0.866	22.0 0.866
	EXN05MMC6	M25x1.5	10.0 0.394	18.0 0.709	16.0 0.63	30.5 1.201	31.0 1.22	28.0 1.102	28.0 1.102
	EXN06MMC6	M32x1.5	14.0 0.551	24.0 0.945	19.0 0.748	33.0 1.299	39.0 1.535	35.0 1.378	35.0 1.378
	EXN07MMC6	M40x1.5	22.0 0.866	32.0 1.26	20.0 0.787	40.5 1.594	49.5 1.949	45.0 1.772	45.0 1.772
	EXN08MMC6	M50x1.5	26.0 1.024	35.0 1.378	20.0 0.787	43.5 1.713	61.0 2.402	55.0 2.165	50.0 1.969
	EXN09MMC6	M63x1.5	35.0 1.378	45.0 1.772	20.0 0.787	43.5 1.713	70.0 2.756	68.0 2.677	64.0 2.52

Ex d e EMC cable glands for hazardous areas

C6 Series

Dimensions

NPT thread	Part no.	NPT thread	Cable range Ø		Nominal dimensions (mm/in)				
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
	EXN03ASC6	3/8"	4.0	8.0	16.0	28.5	22.0	20.0	20.0
			0.157	0.315	0.63	1.122	0.866	0.787	0.787
	EXN03AMC6	3/8"	4.0	8.0	18.0	28.5	24.5	22.0	22.0
			0.157	0.315	0.709	1.122	0.965	0.866	0.866
	EXN04AMC6	1/2"	4.0	12.0	18.0	27.0	24.5	22.0	22.0
			0.157	0.472	0.709	1.063	0.965	0.866	0.866
	EXN05AMC6	3/4"	10.0	18.0	20.0	30.5	31.0	28.0	28.0
			0.394	0.709	0.787	1.201	1.22	1.102	1.102
	EXN06AMC6	3/4"	14.0	24.0	20.0	33.0	39.0	35.0	35.0
			0.551	0.945	0.787	1.299	1.535	1.378	1.378
	EXN07AMC6	1"	22.0	32.0	20.0	40.5	49.5	45.0	45.0
			0.866	1.26	0.787	1.594	1.949	1.772	1.772
	EXN08AMC6	1 1/4"	26.0	35.0	20.0	43.5	61.0	55.0	50.0
			1.024	1.378	0.787	1.713	2.402	2.165	1.969
	EXN09AMC6	1 1/2"	35.0	45.0	20.0	43.5	70.0	68.0	64.0
			1.378	1.772	0.787	1.713	2.756	2.677	2.52

Ex d e Flat EMC cable glands for hazardous areas

C6F Series



C6F Series - Ex e flat cable glands

Features and benefits:

- Flameproof Ex d and Increased safety Ex e
- Suitable for use in Zone 1, 2, 21 and 22
- For use with flat and heat trace cable types
- EMC contact to maintain shielding continuity

Approvals & certifications



Conformity Conforms to:

EN/IECEX: 60079-0, 60079-1,
60079-7, 60079-34, 62444

ATEX: IMQ14ATEX013X

IECEX: IECEX IMQ 14.0005X

EACEx: RU C-GB.AA87.B.00198

CNEx: CNEx15.1696X

DNV: TAE00000Y3

Ⓔ II 2 GD, Ex d e IIC Gb, Ex tb IIIC Db

Temperature range

−60°C to +140°C (−76°F to +284°F)

IP Rating

IP66

IP68 (5-Bar 30 mins)

Material

Nickel plated brass and

stainless steel

Dimensions

Metric thread	Part no.	Metric thread	Min. Length (mm)	Cable range Ø	
				Min. (mm)	Max. (mm)
	EXN04MMAC6F	M20x1.5	16.0	5.0 x 10.0	5.7 x 12.2
	EXN04MMBC6F	M20x1.5	16.0	5.75 x 8.5	6.0 x 10.0
	EXN04MMCC6F	M20x1.5	16.0	5.3 x 11.3	5.5 x 11.7
	EXN04MMDC6F	M20x1.5	16.0	5.3 x 11.3	6.5 x 14.5
	EXN04MMEC6F	M20x1.5	16.0	5.3 x 11.3	6.3 x 10.8
	EXN04MMFC6F	M20x1.5	16.0	5.3 x 11.3	6.7 x 12.7
	EXN05MMAC6F	M25x1.5	16.0	5.0 x 10.4	5.5 x 14.0
	EXN05MMBC6F	M25x1.5	16.0	5.7 x 8.5	6.0 x 10.0
	EXN05MMCC6F	M25x1.5	16.0	5.3 x 11.3	5.5 x 11.7
	EXN05MMDC6F	M25x1.5	16.0	5.5 x 12.0	6.5 x 14.5
	EXN05MMEC6F	M25x1.5	16.0	7.0 x 10.0	9.1 x 12.3
	EXN05MMFC6F	M25x1.5	16.0	5.6 x 10.0	9.0 x 14.0
	EXN05MMGC6F	M25x1.5	16.0	6.5 x 14.8	6.8 x 15.3
	EXN05MMHC6F	M25x1.5	16.0	5.2 x 10.0	7.0 x 12.0
	Sealing Combination 				

Ex d e Flat EMC cable glands for hazardous areas

C6F Series

Dimensions

NPT thread	Part no.	NPT thread	Min. Length (mm)	Cable range Ø	
				Min. (mm)	Max. (mm)
	EXN04AMAC6F	1/2"	16.0	5.0 x 10.0	5.7 x 12.2
	EXN04AMBC6F	1/2"	16.0	5.75 x 8.5	6.0 x 10.0
	EXN04AMCC6F	1/2"	16.0	5.3 x 11.3	5.5 x 11.7
	EXN04AMDC6F	1/2"	16.0	5.3 x 11.3	6.5 x 14.5
	EXN04AMEC6F	1/2"	16.0	5.3 x 11.3	6.3 x 10.8
	EXN04AMFC6F	1/2"	16.0	5.3 x 11.3	6.7 x 12.7
	EXN05AMAC6F	3/4"	16.0	5.0 x 10.4	5.5 x 14.0
	EXN05AMBC6F	3/4"	16.0	5.7 x 8.5	6.0 x 10.0
	EXN05AMCC6F	3/4"	16.0	5.3 x 11.3	5.5 x 11.7
	EXN05AMDC6F	3/4"	16.0	5.5 x 12.0	6.5 x 14.5
	EXN05AMEC6F	3/4"	16.0	7.0 x 10.0	9.1 x 12.3
	EXN05AMFC6F	3/4"	16.0	5.6 x 10.0	9.0 x 14.0
	EXN05AMGC6F	3/4"	16.0	6.5 x 14.8	6.8 x 15.3
	EXN05AMHC6F	3/4"	16.0	5.2 x 10.0	7.0 x 12.0

Ex d e Non-armored barrier cable glands for hazardous areas

C4 Series



Features and benefits:

- Flameproof Ex d and Increased safety Ex e
- Suitable for use in Zone 1, 2, 21 and 22
- For use with all non-armored cable types
- Epoxy compound barrier

C4 Series - Ex d e armored cable glands

Approvals & certifications



Conformity

Conforms to:

EN/IECEx: 60079-0, 60079-1,
60079-7, 60079-34, 62444

ATEX: CESI14ATEX032X

IECEX: IECEX CES 14.0013X

CNEx: CNEx15.1690X

DNV: TAE00000Y3

TAE00000Y3

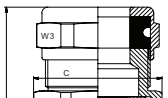
⊕ II 2 GD, Ex d e IIC Gb, Ex tb IIIC Db,

Temperature range

Operating range: -60°C to +100°C (-76°F to +212°F)

IP Rating	Material
IP66	Nickel plated brass
	Stainless steel 316

Dimensions

		Metric thread	Cable range Ø		Nominal dimensions (mm/in)					
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2	W3
	EXN04MC4	M20x1.5	8.5	16.0	16.0	62.0	33.0	30.0	30.0	29.0
			0.335	0.630	0.630	2.440	1.299	1.181	1.181	1.142
	EXN05MC4	M25x1.5	16.0	21.0	16.0	62.8	37.0	34.0	34.0	34.0
			0.630	0.827	0.630	2.472	1.456	1.338	1.338	1.338
	EXN06MC4	M32x1.5	16.0	26.0	16.0	68.5	45.0	42.0	42.0	40.0
			0.630	1.024	0.630	2.460	1.771	1.653	1.653	1.574
	EXN07MC4	M40x1.5	29.0	41.0	16.0	75.1	66.0	50.0	60.0	60.0
			1.142	1.614	0.630	2.956	2.598	1.968	2.362	2.362
	EXN08MC4	M50x1.5	33.0	48.0	16.0	82.7	77.0	60.0	70.0	75.0
			1.299	1.890	0.630	3.255	3.031	2.362	2.755	2.952
	EXN09MC4	M63x1.5	36.0	52.0	16.0	96.0	77.0	70.0	70.0	74.0
			1.417	2.047	0.630	3.779	3.031	2.755	2.755	2.913

EXN for nickel plated

Ex d e Non-armored barrier cable glands for hazardous areas

C4 Series

Dimensions

NPT thread	Part no.	NPT thread	Cable range Ø		Nominal dimensions (mm/in)					
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2	W3
	EXN04AC4	1/2"	8.5	16.0	21.0	62.0	33.0	30.0	30.0	30.0
			0.335	0.630	0.826	2.440	1.299	1.181	1.181	1.181
	EXN05AC4	3/4"	16.0	21.0	21.0	62.8	37.0	34.0	34.0	34.0
			0.630	0.827	0.826	2.472	1.456	1.338	1.338	1.338
	EXN06AC4	1"	16.0	26.0	26.0	68.5	45.0	42.0	42.0	40.0
			0.630	1.024	1.023	2.460	1.771	1.653	1.653	1.574
	EXN07AC4	1 1/4"	29.0	41.0	28.0	75.1	66.0	50.0	60.0	60.0
			1.142	1.614	1.102	2.956	2.598	1.968	2.362	2.362
	EXN08AC4	1 1/2"	33.0	48.0	28.0	82.7	77.0	60.0	70.0	75.0
			1.299	1.890	1.102	3.255	3.031	2.362	2.755	2.952
	EXN09AC4	2"	36.0	52.0	28.0	96.0	77.0	70.0	70.0	74.0
			1.417	2.047	1.102	3.779	3.031	2.755	2.755	2.913

EXN for nickel plated

Ex e Strain relief cable glands for ordinary and hazardous areas

ISR Series



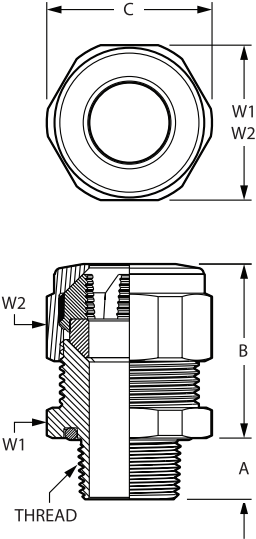
Features and benefits:

- Increased safety Ex e
- Suitable for use in Zone 1, 2, 20, 21 and 22
- For use with non-armored cable types
- Mechanical grip for maximum cable retention
- Wide clamping range

ISR Series - Industrial strain relief cable glands

Approvals & certifications		Conformity	Temperature range	
   		Conforms to:	Approved: -50°C to +110°C (-40°F to +230°F)	
Metric is not UL listed		CSA C22.2/IEC/EN 60079-0, 60079-7, 60079-31, C22.2 No.18.3, C22.2 No.25, C22.2 No.94, UL2225, UL514B		
  		CSA Certificate: 70009467 File 23086	IP Rating	
		ABS Certificate: 16-HS1588269-PDA	IP66	
		ATEX: SIRA 14ATEX3238X	Type 4X	
		IECEX: CSA 14.0035X		
		© II 1D 2G, Ex e IIC Gb, Ex ta IIIC Da		
		Class I Div2 ABCD Class II Div1 EFG		
		Class III Div1		
		UL Files: E311979, E328651, E13938, E307708		
		Class I, Zone 1, AEx e IIC, Zone 20, AEx ta		
			Material	
			Copper free aluminium	
			(stainless steel 316L options)	
			Silicone seal bushing	
			Glass filled nylon and TPE grip	

Dimensions

Metric thread	Part no.	Metric thread	Cable range		Nominal dimensions (mm/in)				
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1 W2	
	ISRM20-13	M20x1.5	8.25	13.34	16.00	41.91	34.29	31.75	31.75
			0.325	0.525	0.630	1.650	1.350	1.250	1.250
	ISRM20-15	M20x1.5	10.79	15.00	16.00	42.75	38.10	34.93	34.93
			0.425	0.591	0.630	1.683	1.500	1.375	1.375
	ISRM25-15	M25x1.5	10.79	15.75	18.00	42.75	41.28	38.10	38.10
			0.157	0.620	0.709	1.683	1.625	1.500	1.500
	ISRM25-20	M25x1.5	14.86	20.07	18.00	45.47	43.18	40.49	40.49
			0.585	0.790	0.709	1.790	1.700	1.594	1.594
	ISRM32-26	M32x1.5	19.94	26.04	18.00	46.18	48.26	44.45	44.45
			0.785	1.025	0.709	1.818	1.900	1.750	1.750
	ISRM40-31	M40x1.5	25.02	30.86	18.00	50.62	58.93	55.63	55.63
			0.985	1.215	0.709	1.993	2.320	2.190	2.190
	ISRM40-35	M40x1.5	30.10	34.80	18.00	48.72	58.93	55.63	55.63
			1.185	1.370	0.709	1.918	2.320	2.190	2.190
	ISRM50-39	M50x1.5	33.91	39.37	18.00	49.40	65.53	60.33	60.33
			1.335	1.550	0.709	1.945	2.580	2.375	2.375
	ISRM63-45	M63x1.5	38.73	45.34	20.00	51.23	81.28	76.20	72.85
			1.525	1.785	0.787	2.017	3.200	3.000	2.868
	ISRM63-52	M63x1.5	44.58	52.20	20.00	51.05	81.28	76.20	76.20
			1.755	2.055	0.787	2.010	3.200	3.000	3.000

Ex e strain relief cable glands for ordinary and hazardous areas

ISR Series

Dimensions

NPT thread	Part no.	NPT thread	Cable range		Nominal dimensions (mm/in)				
			Min.	Max.	A Min	B Min	C Min	W1	W2
			(mm/in)	(mm/in)					
	ISRM50-53	1/2"	8.26	13.34	15.75	41.91	34.29	31.75	31.75
			0.325	0.525	0.620	1.650	1.350	1.250	1.250
	ISR050-062	1/2"	10.80	15.75	15.75	42.75	38.10	34.93	34.93
			0.425	0.620	0.620	1.683	1.500	1.375	1.375
	ISR075-062	3/4"	10.80	15.75	16.00	42.75	41.28	38.10	38.10
			0.425	0.620	0.630	1.683	1.625	1.500	1.500
	ISR075-082	3/4"	14.86	20.70	16.00	45.47	43.18	40.49	40.49
			0.585	0.815	0.630	1.790	1.700	1.594	1.594
	ISR100-102	1"	19.94	26.04	19.94	46.18	48.26	44.70	44.70
			0.785	1.025	0.785	1.818	1.900	1.760	1.760
	ISR125-122	1 1/4"	25.02	30.86	20.57	50.62	58.93	55.63	55.63
			0.985	1.215	0.810	1.993	2.320	2.190	2.190
	ISR125-137	1 1/4"	30.10	34.80	20.57	48.72	58.93	55.63	55.63
			1.185	1.370	0.810	1.918	2.320	2.190	2.190
	ISR150-156	1 1/2"	33.91	39.37	20.96	49.40	65.53	60.33	60.33
			1.335	1.550	0.825	1.945	2.580	2.375	2.375
	ISR200-179	2"	38.74	45.34	21.84	51.23	76.50	72.85	72.85
			1.525	1.785	0.860	2.017	3.012	2.868	2.868
	ISR200-206	2"	44.58	52.20	21.84	51.05	81.28	76.20	76.20
			1.755	2.055	0.860	2.010	3.200	3.000	3.000

Tray – cord fitting

TCF Series



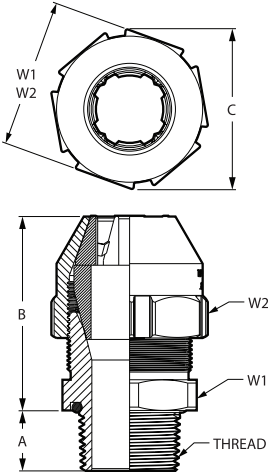
Features and benefits:

- High Mechanical pull out
- Wide clamping range
- Suitable for non-armored cable types

TCF Series - Brass cable glands

Approvals & certifications		Conformity		Temperature range	
		Conforms to:		Normal use: -40°C to +90°C (-76°F to +194°F)	
		CSA C22.2 60079-0, C22.2 60079-7, C22.2 No.18.3, C22.2 No.25, C22.2 No. 94, UL60079-0, UL60079-7, UL514B, UL50			
		c-CSA-us Certificate: 1388229 File 4484			
		Ex e II, IP66; Type 4/4X,6 Class I, Zone 1, AEx e II, IP66; Type 4/4X,6			
		IP Rating		Material	
		IP66		Copper free aluminium (stainless steel 316 options)	
		Type 4/4X			
		Type 6 (flexible cord only)		Neoprene/Santoprene sealing bush body and cap Nylon grip	

Dimensions

Metric thread	Part no.	NPT thread	Cable range		Nominal dimensions (mm/in)				
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
	TCF050-27AL	1/2"	3.81	6.86	15.75	48.08	31.84	28.58	29.64
			0.150	0.270	0.620	1.893	1.253	1.125	1.167
	TCF050-40AL	1/2"	6.35	10.16	15.75	59.18	31.84	28.58	29.64
			0.250	0.400	0.620	2.330	1.253	1.125	1.167
	TCF050-54AL	1/2"	10.16	13.72	15.75	59.18	31.84	28.58	29.64
			0.400	0.540	0.620	2.330	1.253	1.125	1.167
	TCF050-67AL	1/2"	13.72	17.02	15.75	62.43	41.60	34.93	38.74
			0.540	0.670	0.620	2.458	1.638	1.375	1.525
	TCF050-78AL	1/2"	16.76	19.81	15.75	62.43	41.60	34.93	38.74
			0.660	0.780	0.620	2.458	1.638	1.375	1.525
	TCF075-40AL	3/4"	6.35	10.16	16.00	59.18	31.84	34.93	29.64
			0.250	0.400	0.630	2.330	1.253	1.375	1.167
	TCF075-54AL	3/4"	10.16	13.72	16.00	59.18	31.84	34.93	29.64
			0.400	0.540	0.630	2.330	1.253	1.375	1.167
	TCF075-67AL	3/4"	13.72	17.02	16.00	62.43	41.60	34.93	38.74
			0.540	0.670	0.630	2.458	1.638	1.375	1.525
	TCF075-78AL	3/4"	16.76	19.81	16.00	62.43	41.60	34.93	38.74
			0.660	0.780	0.630	2.458	1.638	1.375	1.525
	TCF075-88AL	3/4"	19.56	22.35	15.75	68.71	52.84	44.45	49.20
			0.770	0.880	0.620	2.705	2.080	1.750	1.937

Tray – cord fitting

TCF Series

Dimensions

NPT thread	Part no.	NPT thread	Cable range		Nominal dimensions (mm/in)				
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2
	TCF100-78AL	1"	16.76	19.81	19.94	69.98	52.84	44.45	49.20
			0.660	0.780	0.785	2.755	2.080	1.750	1.937
	TCF100-88AL	1"	19.56	22.35	19.94	69.98	52.84	44.45	49.20
			0.770	0.880	0.785	2.755	2.080	1.750	1.937
	TCF100-100AL	1"	22.10	25.40	19.94	69.98	52.84	44.45	49.20
			0.870	1.000	0.785	2.755	2.080	1.750	1.937
	TCF100-109AL	1"	23.88	27.69	19.94	69.72	52.84	44.45	49.20
			0.940	1.090	0.785	2.745	2.080	1.750	1.937
	TCF125-109AL	1 1/4"	22.61	27.69	20.57	98.15	68.12	61.72	63.42
			0.890	1.090	0.810	3.864	2.682	2.430	2.497
	TCF125-128AL	1 1/4"	27.43	32.51	20.57	98.15	68.12	61.72	63.42
			1.080	1.280	0.810	3.864	2.682	2.430	2.497
	TCF125-147AL	1 1/4"	32.26	37.34	20.57	98.15	68.12	61.72	63.42
			1.270	1.470	0.810	3.864	2.682	2.430	2.497
	TCF150-115AL	1 1/2"	22.61	29.21	20.96	96.42	78.62	66.47	73.20
			0.890	1.150	0.825	3.796	3.095	2.617	2.882
	TCF150-140AL	1 1/2"	28.96	35.56	20.96	96.42	78.62	66.47	73.20
			1.140	1.400	0.825	3.796	3.095	2.617	2.882
	TCF150-165AL	1 1/2"	35.31	41.91	20.96	96.42	78.62	66.47	73.20
			1.390	1.650	0.825	3.796	3.095	2.617	2.882
	TCF200-153AL	2"	30.23	38.86	21.84	106.88	92.59	82.42	86.21
			1.190	1.530	0.860	4.208	3.645	3.245	3.394
	TCF200-186AL	2"	38.61	47.24	21.84	106.88	92.59	82.42	86.21
			1.520	1.860	0.860	4.208	3.645	3.245	3.394
	TCF200-219AL	2"	46.99	55.63	21.84	106.88	92.59	82.42	86.21
			1.850	2.190	0.860	4.208	3.645	3.245	3.394
	TCF250-252AL	2 1/2"	53.85	64.01	32.51	141.73	113.67	99.77	105.31
			2.120	2.520	1.280	5.580	4.475	3.928	4.146
	TCF300-278AL	3"	60.45	70.61	33.76	142.27	122.81	111.20	114.10
			2.380	2.780	1.329	5.601	4.835	4.378	4.492
	TCF300-304AL	3"	67.06	77.22	34.04	146.30	130.58	119.46	121.69
			2.640	3.040	1.340	5.760	5.141	4.703	4.791
	TCF300-330AL	3"	73.66	83.82	34.04	147.83	137.67	118.11	128.17
			2.900	3.300	1.340	5.820	5.420	4.650	5.046

Ex d e Armored cable glands for hazardous areas

C1 Series



Features and benefits:

- Flameproof Ex d and Increased safety Ex e
- Suitable for use in Zone 1, 2, 21 and 22
- For use with Wire, braid or tape armored cable types

Available in kit form with locknut, earth tag, sealing washer and dust shroud, add 'K' suffix.

C1 Series - Ex d e single compression cable glands

Approvals & certifications		Conformity		Temperature range	
		Conforms to:		Operating range: -40°C to +100°C (-40°F to +212°F)	
		EN/IECEX: 60079-0, 60079-1, 60079-7, 60079-34, 62444			
		UL514B, UL2225			
		ATEX: CESI13ATEX041X			
		IECEX: IECEX CES 13.0014X			
		EACEX: RU C-GB.AA87.B.00198			
		CNEX: CNEX15.1692X			
		DNV: TAE00000Y3			
		UL: E477121			
		Ⓢ II 2 GD, Ex d e IIC Gb, Ex tb IIIC Db			
		Class 1 Zone 1 AEx e IIC			
				IP Rating	Material
				IP66	Nickel plated brass and
				IP68 (5-Bar 30 mins)	Stainless steel 316

Dimensions

Metric thread	Part no.	Metric thread	Cable range Ø		Nominal dimensions (mm/in)					
			Inner Min. (mm/in)	Outer Max. (mm/in)	A Min	B Min	C Min	W1	W2	W3
	EXN03MSC1	M16x1.5	3.0 - 8.5	6.0 - 12.0	16.0	47.5	29.0	22.0	26.0	26.0
			0.118 - 0.335	0.236 - 0.472	0.63	1.87	1.142	0.866	1.024	1.024
	EXN03MMC1	M16x1.5	6.0 - 12.0	8.5 - 16.0	16.0	50.0	31.5	25.0	29.0	29.0
			0.236 - 0.472	0.335 - 0.630	0.63	1.969	1.24	0.984	1.142	1.142
	EXN04MSC1	M20x1.5	3.0 - 8.5	6.0 - 12.0	16.0	47.5	29.0	24.0	26.0	26.0
			0.118 - 0.335	0.236 - 0.472	0.63	1.87	1.142	0.945	1.024	1.024
	EXN04MMC1	M20x1.5	6.0 - 12.0	8.5 - 16.0	16.0	47.0	31.5	25.0	29.0	29.0
			0.236 - 0.472	0.335 - 0.630	0.63	1.929	1.24	0.984	1.142	1.142
	EXN04MLC1	M20x1.5	12.0 - 14.5	16.0 - 20.0	16.0	52.0	35.0	28.0	30.0	32.0
			0.472 - 0.571	0.630 - 0.787	0.63	2.047	1.378	1.102	1.181	1.26
	EXN05MSC1	M25x1.5	6.0 - 12.0	8.5 - 16.0	18.0	50.5	31.5	29.0	29.0	29.0
			0.236 - 0.472	0.335 - 0.630	0.709	1.988	1.24	1.142	1.142	1.142
	EXN05MMC1	M25x1.5	12.0 - 16.0	16.0 - 21.0	18.0	54.5	37.0	32.0	34.0	34.0
			0.472 - 0.630	0.630 - 0.827	0.709	2.146	1.457	1.26	1.339	1.339
	EXN05MLC1	M25x1.5	12.0 - 20.0	16.0 - 26.0	18.0	60.5	44.0	36.0	40.0	40.0
			0.472 - 0.787	0.630 - 1.024	0.709	2.382	1.732	1.417	1.575	1.575
	EXN06MSC1	M32x1.5	12.0 - 20.0	16.0 - 26.0	18.0	62.0	44.0	40.0	40.0	40.0
			0.472 - 0.787	0.630 - 1.024	0.709	2.441	1.732	1.575	1.575	1.575

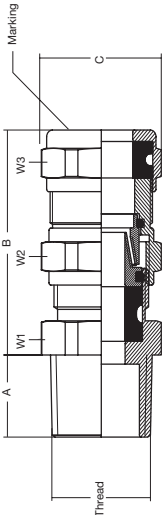
Ex d e Armored cable glands for hazardous areas

C1 Series

Dimensions

Metric thread	Part no.	Metric thread	Cable range Ø		Nominal dimensions (mm/in)					
			Inner Min. (mm/in)	Outer Max. (mm/in)	A Min	B Min	C Min	W1	W2	W3
	EXN06MMC1	M32x1.5	15.0 - 26.0	20.0 - 33.0	18.0	78.5	57.0	48.0	52.0	52.0
			0.591 - 1.024	0.787 - 1.299	0.709	3.091	2.244	1.89	2.047	2.047
	EXN07MSC1	M40x1.5	15.0 - 26.0	20.0 - 33.0	18.0	78.5	57.0	48.0	52.0	52.0
			0.591 - 1.024	0.787 - 1.299	0.709	3.091	2.244	1.89	2.047	2.047
	EXN07MMC1	M40x1.5	20.0 - 32.0	29.0 - 41.0	18.0	89.5	66.0	55.0	60.0	60.0
			0.787 - 1.260	1.142 - 1.614	0.709	3.524	2.598	2.165	2.362	2.362
	EXN08MSC1	M50x1.5	22.0 - 35.0	33.0 - 48.0	18.0	96.5	82.0	60.0	70.0	75.0
			0.866 - 1.378	1.299 - 1.890	0.709	3.799	3.228	2.362	2.756	2.953
	EXN08MMC1	M50x1.5	27.0 - 41.0	36.0 - 52.0	18.0	100.0	83.0	70.0	70.0	74.0
			1.063 - 1.614	1.417 - 2.047	0.709	3.937	3.268	2.756	2.756	2.913
	EXN09MSC1	M63x1.5	35.0 - 45.0	43.0 - 57.0	20.0	106.0	89.5	75.0	80.0	80.0
			1.378 - 1.772	1.693 - 2.244	0.787	4.173	3.524	2.953	3.15	3.15
	EXN09MMC1	M63x1.5	40.0 - 52.0	47.0 - 60.0	20.0	108.0	94.0	85.0	85.0	85.0
			1.575 - 2.047	1.850 - 2.362	0.787	4.252	3.701	3.346	3.346	3.346
	EXN10MSC1	M75x1.5	40.0 - 52.0	47.0 - 60.0	20.0	107.0	94.0	85.0	85.0	85.0
			1.575 - 2.047	1.850 - 2.362	0.787	4.252	3.701	3.346	3.346	3.346
	EXN10MMC1	M75x1.5	45.0 - 60.0	54.0 - 70.0	20.0	125.0	110.5	90.0	95.0	100.0
			1.772 - 2.362	2.126 - 2.756	0.787	4.921	4.35	3.543	3.74	3.937
	EXN11MSC1	M90x1.5	45.0 - 60.0	54.0 - 70.0	20.0	124.0	110.5	95.0	95.0	100.0
			1.772 - 2.362	2.126 - 2.756	0.787	4.882	4.35	3.74	3.74	3.937
	EXN11MMC1	M90x1.5	60.0 - 72.0	63.0 - 80.0	20.0	154.0	127.0	110.0	115.0	115.0
			2.362 - 2.835	2.480 - 3.150	0.787	6.063	5.000	4.331	4.528	4.528
	EXN12MSC1	M110x2.0	45.0 - 60.0	54.0 - 70.0	20.0	124.0	110.5	120.0	95.0	100.0
			1.772 - 2.362	2.126 - 2.756	0.787	4.882	4.35	4.724	3.74	3.937
	EXN12MMC1	M110x2.0	60.0 - 72.0	63.0 - 80.0	20.0	154.0	127.0	120.0	115.0	115.0
			2.362 - 2.835	2.480 - 3.150	0.787	6.063	5.000	4.724	4.528	4.528

Dimensions

NPT thread	Part no.	NPT thread	Cable range Ø		Nominal dimensions (mm/in)					
			Inner Min. (mm/in)	Outer Max. (mm/in)	A Min	B Min	C Min	W1	W2	W3
	EXN03ASC1	3/8"	3.0 - 8.5	6.0 - 12.0	16.0	47.5	29.0	22.0	26.0	26.0
			0.118 - 0.335	0.236 - 0.472	0.63	1.87	1.142	0.866	1.024	1.024
	EXN03AMC1	3/8"	6.0 - 12.0	8.5 - 16.0	16.0	50.0	31.5	25.0	29.0	29.0
			0.236 - 0.472	0.335 - 0.630	0.63	1.969	1.24	0.984	1.142	1.142
	EXN04ASC1	1/2"	3.0 - 8.5	6.0 - 12.0	16.0	47.5	29.0	24.0	26.0	26.0
			0.118 - 0.335	0.236 - 0.472	0.63	1.87	1.142	0.945	1.024	1.024
	EXN04AMC1	1/2"	6.0 - 12.0	8.5 - 16.0	16.0	49.0	31.5	25.0	29.0	29.0
			0.236 - 0.472	0.335 - 0.630	0.63	1.929	1.24	0.984	1.142	1.142
	EXN04ALC1	1/2"	12.0 - 14.5	16.0 - 20.0	16.0	52.0	35.0	28.0	30.0	32.0
			0.472 - 0.571	0.630 - 0.787	0.63	2.047	1.378	1.102	1.181	1.26
	EXN05ASC1	3/4"	6.0 - 12.0	8.5 - 16.0	18.0	50.5	31.5	29.0	29.0	29.0
			0.236 - 0.472	0.335 - 0.630	0.709	1.988	1.24	1.142	1.142	1.142
	EXN05AMC1	3/4"	12.0 - 16.0	16.0 - 21.0	18.0	54.5	37.0	32.0	34.0	34
			0.472 - 0.630	0.630 - 0.827	0.709	2.146	1.457	1.26	1.339	1.339
	EXN05ALC1	3/4"	12.0 - 20.0	16.0 - 26.0	18.0	60.5	44.0	36.0	40.0	40.0
			0.472 - 0.787	0.630 - 1.024	0.709	2.382	1.732	1.417	1.575	1.575
	EXN06ASC1	1"	12.0 - 20.0	16.0 - 26.0	18.0	62.0	44.0	40.0	40.0	40.0
			0.472 - 0.787	0.630 - 1.024	0.709	2.441	1.732	1.575	1.575	1.575

Ex d e Armored cable glands for hazardous areas

C1 Series

Dimensions

NPT thread	Part no.	NPT thread	Cable range Ø		Nominal dimensions (mm/in)					
			Inner Min. (mm/in)	Outer Max. (mm/in)	A Min	B Min	C Min	W1	W2	W3
	EXN06AMC1	1"	20.0 - 32.0	29.0 - 41.0	18.0	89.5	66.0	55.0	60.0	60.0
			0.787 - 1.260	1.142 - 1.614	0.709	3.524	2.598	2.165	2.362	2.362
	EXN07ASC1	1 1/4"	22.0 - 35.0	33.0 - 48.0	21.0	96.5	82.0	60.0	70.0	75.0
			0.866 - 1.378	1.299 - 1.890	0.827	3.799	3.228	2.362	2.756	2.953
	EXN07AMC1	1 1/4"	27.0 - 41.0	36.0 - 52.0	21.0	100.0	83.0	70.0	70.0	74.0
			1.063 - 1.614	1.417 - 2.047	0.827	3.937	3.268	2.756	2.756	2.913
	EXN08ASC1	1 1/2"	35.0 - 45.0	43.0 - 57.0	21.0	106.0	89.5	75.0	80.0	80.0
			1.378 - 1.772	1.693 - 2.244	0.827	4.173	3.524	2.953	3.15	3.15
	EXN08AMC1	1 1/2"	40.0 - 52.0	47.0 - 60.0	21.0	108.0	94.0	85.0	85.0	85.0
			1.575 - 2.047	1.850 - 2.362	0.827	4.252	3.701	3.346	3.346	3.346
	EXN09ASC1	2"	40.0 - 52.0	47.0 - 60.0	21.0	108.0	94.0	85.0	85.0	85.0
			1.575 - 2.047	1.850 - 2.362	0.827	4.252	3.701	3.346	3.346	3.346
	EXN09AMC1	2"	45.0 - 60.0	54.0 - 70.0	21.0	125.0	110.5	90.0	95.0	100.0
			1.772 - 2.362	2.126 - 2.756	0.827	4.921	4.35	3.543	3.74	3.937
	EXN10ASC1	2 1/2"	45.0 - 60.0	54.0 - 70.0	21.0	124.0	110.5	95.0	95.0	100.0
			1.772 - 2.362	2.126 - 2.756	0.827	4.882	4.35	3.74	3.74	3.937
	EXN10AMC1	2 1/2"	60.0 - 72.0	63.0 - 80.0	21.0	154.0	127.0	110.0	115.0	115.0
			2.362 - 2.835	2.480 - 3.150	0.827	6.063	5.000	4.331	4.528	4.528
	EXN11ASC1	3"	45.0 - 60.0	54.0 - 70.0	21.0	124.0	110.5	120.0	95.0	100.0
			1.772 - 2.362	2.126 - 2.756	0.827	4.882	4.350	4.724	3.74	3.937
	EXN11AMC1	3"	60.0 - 72.0	63.0 - 80.0	21.0	154.0	127.0	120.0	115.0	115.0
			2.362 - 2.835	2.480 - 3.150	0.8	6.1	5.0	4.7	4.5	4.528
	EXN12ASC1	3 1/2"	45.0 - 60.0	54.0 - 70.0	21.0	124.0	110.5	120.0	95	100.0
			1.772 - 2.362	2.126 - 2.756	0.787	4.882	4.35	4.724	3.74	3.937
	EXN12AMC1	3 1/2"	60.0 - 72.0	63.0 - 80.0	21.0	154.0	127.0	120.0	115.0	115.0
			2.362 - 2.835	2.480 - 3.150	0.787	6.063	5	4.724	4.528	4.528

Ex d e Armored barrier cable glands for hazardous areas

C5 Series



Features and benefits:

- Flameproof Ex d and Increased safety Ex e
- Suitable for use in Zone 1, 2, 21 and 22
- For use with Wire, braid or tape armored cable types
- Epoxy compound barrier

C5 Series - Ex d e armored cable glands

Approvals & certifications		Conformity	Temperature range	
		Conforms to:	Operating range: -60°C to +100°C (-76°F to +212°F)	
		EN/IECEx: 60079-0, 60079-1, 60079-7, 60079-34, 62444		
		ATEX: CESI14ATEX032X	IP Rating	Material
		IECEx: IECEx CES 14.0013X	IP66	Brass, Nickel plated brass and
		CNEX: CNEx15.1690X		Stainless steel 316
		DNV: TAE00000Y3		
		Ⓢ II 2 GD, Ex d e IIC Gb, Ex tb IIIC Db		

Dimensions

Metric thread	Part no.	Metric thread	Cable range Ø		Nominal dimensions (mm/in)					
			Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	W1	W2	W3
	EXN04MC5	M20x1.5	8.5	16.0	16.0	70.0	33.0	30.0	30.0	29.0
			0.335	0.630	0.630	2.756	1.299	1.181	1.181	1.142
	EXN05MC5	M25x1.5	16.0	21.0	16.0	72.1	37.0	34.0	34.0	34.0
			0.630	0.827	0.630	2.838	1.456	1.338	1.338	1.338
	EXN06MC5	M32x1.5	16.0	26.0	16.0	76.0	45.0	42.0	42.0	40.0
			0.630	1.024	0.630	2.992	1.771	1.653	1.653	1.574
	EXN07MC5	M40x1.5	29.0	41.0	16.0	83.4	66.0	50.0	60.0	60.0
			1.142	1.614	0.630	3.283	2.598	1.968	2.362	2.362
	EXN08MC5	M50x1.5	33.0	48.0	16.0	96.6	77.0	60.0	70.0	75.0
			1.299	1.890	0.630	3.803	3.031	2.362	2.755	2.952
	EXN09MC5	M63x1.5	36.0	52.0	16.0	109.5	77.0	70.0	70.0	74.0
			1.417	2.047	0.630	4.311	3.031	2.755	2.755	2.913
	EXN04AC5	1/2"	8.5	16.0	16.0	70.0	33.0	30.0	30.0	30.0
			0.335	0.630	0.630	2.756	1.299	1.181	1.181	1.181
	EXN05AC5	3/4"	16.0	21.0	16.0	72.1	37.0	34.0	34.0	34.0
			0.630	0.827	0.630	2.838	1.456	1.338	1.338	1.338
	EXN06AC5	1"	16.0	26.0	16.0	76.0	45.0	42.0	42.0	40.0
			0.630	1.024	0.630	2.992	1.771	1.653	1.653	1.574
	EXN07AC5	1 1/4"	29.0	41.0	16.0	83.4	66.0	50.0	60.0	60.0
			1.142	1.614	0.630	3.283	2.598	1.968	2.362	2.362
	EXN08AC5	1 1/2"	33.0	48.0	16.0	96.6	77.0	60.0	70.0	75.0
			1.299	1.890	0.630	3.803	3.031	2.362	2.755	2.952
	EXN09AC5	2"	36.0	52.0	16.0	109.5	77.0	70.0	70.0	74.0
			1.417	2.047	0.630	4.311	3.031	2.755	2.755	2.913

EXN for nickel plated

Jacketed metal-clad cable fittings for hazardous locations

ST Series



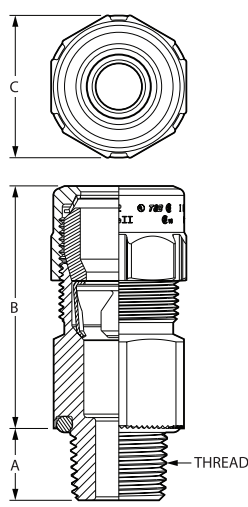
ST Series - Jacketed metal-clad cable glands

Features and benefits:

- Excellent pullout strength
- Robust metallic construction
- Quick and easy installation without disassembly
- “Pop-on” fitting (no disassembly) saves installer time.
- Provides grounding continuity of cable armor
- Splined gland and gripping features for ease of installation

Approvals & certifications		Conformity Conforms to:	Temperature range
 		CSA C22.2 60079-0, C22.2 60079-7, C22.2 No.18.3, C22.2 No.25, C22.2 No.94, C22.2 No. 174, UL2279, UL514B, UL50	– 40 to +90°C (–40°F to +194°F)
		c-CSA-us Certificate: 1105555 File 23086	
		Class I Div1 ABCD Class II Div1 EFG Class III Div1 (Refer to CEC)	
		Ex e II	
		UL File: E38947	
		Class I, Zone 1, AEx e II	
		Suitable for Class I Div2, Class II Div2 and Class III Div2	
			IP Rating
			Type 4X
			Material
			Copper free aluminium
			Zinc plated steel
			Stainless steel

Dimensions

NPT thread	Part no.	NPT thread	Cable range over jacket		Cable range over armour		Nominal dimensions (mm/in)		
			Min. (mm/in)	Max. (mm/in)	Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min
	ST038-461S*	3/8"	8.74	13.59	6.20	11.05	11.68	51.31	25.27
			0.344	0.535	0.244	0.435	0.460	2.020	0.995
	ST050-462	1/2"	13.34	16.51	10.54	14.48	15.75	51.31	34.13
			0.525	0.650	0.415	0.570	0.620	2.020	1.344
	ST050-464	1/2"	15.24	19.30	12.45	17.27	15.75	51.31	34.13
			0.600	0.760	0.490	0.680	0.620	2.020	1.344
	ST050-465	1/2"	18.42	22.48	15.62	20.45	15.75	54.10	42.07
			0.725	0.885	0.615	0.805	0.620	2.130	1.656
	ST050-466	1/2"	20.96	25.02	18.16	22.99	15.75	54.10	42.07
			0.825	0.985	0.715	0.905	0.620	2.130	1.656
	ST075-467	3/4"	22.35	27.05	19.56	25.02	16.00	62.23	53.18
			0.880	1.065	0.770	0.985	0.630	2.450	2.094
	ST075-468	3/4"	26.04	30.61	23.24	28.58	16.00	62.23	53.18
			1.025	1.205	0.915	1.125	0.630	2.450	2.094
	ST100-469	1"	30.15	34.93	27.36	32.89	19.94	66.04	61.91
			1.187	1.375	1.077	1.295	0.785	2.600	2.438
	ST125-470	1 1/4"	34.29	41.28	31.50	39.24	20.57	83.31	76.20
			1.350	1.625	1.240	1.545	0.810	3.280	3.000

Jacketed metal-clad cable fittings for hazardous locations

ST Series

Dimensions

NPT thread	Part no.	NPT thread	Cable range over jacket		Cable range over armour		Nominal dimensions (mm/in)		
			Min. (mm/in)	Max. (mm/in)	Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min
	ST125-550	1 1/4"	38.10	41.28	35.31	39.24	20.57	83.31	76.20
			1.500	1.625	1.390	1.545	0.810	3.280	3.000
	ST125-471	1/2"	40.64	47.63	37.85	45.59	20.57	83.31	76.20
			1.600	1.875	1.490	1.795	0.810	3.280	3.000
	ST150-472	1/2"	43.18	49.91	40.39	47.88	20.96	91.95	87.31
			1.700	1.965	1.590	1.885	0.825	3.620	3.438
	ST150-473	1/2"	48.26	55.55	45.47	53.52	20.96	91.95	87.31
			1.900	2.187	1.790	2.107	0.825	3.620	3.438
	ST200-551	1/2"	48.26	55.55	45.47	53.52	21.84	92.46	96.84
			1.900	2.187	1.790	2.107	0.860	3.640	3.813
	ST200-474	3/4"	53.34	60.33	50.55	57.91	21.84	92.46	96.84
			2.100	2.375	1.990	2.280	0.860	3.640	3.813
	ST200-475	3/4"	58.42	65.15	55.63	63.12	21.84	92.46	106.36
			2.300	2.565	2.190	2.485	0.860	3.640	4.188
	ST200-476	3/4"	63.50	69.85	60.71	67.46	21.84	92.46	106.36
			2.500	2.750	2.390	2.656	0.860	3.640	4.188
	ST250-477	3/4"	60.45	67.06	56.90	65.02	32.51	119.38	121.44
			2.380	2.640	2.240	2.560	1.280	4.700	4.781
	ST250-478	3/4"	65.53	72.14	61.98	69.85	32.51	119.38	121.44
			2.580	2.840	2.440	2.750	1.280	4.700	4.781
	ST300-479	3/4"	70.87	77.72	67.06	75.44	34.04	119.38	129.38
			2.790	3.060	2.640	2.970	1.340	4.700	5.094
	ST300-480	3/4"	76.20	83.06	72.90	81.03	34.04	121.67	139.70
			3.000	3.270	2.870	3.190	1.340	4.790	5.500
	ST300-481	3/4"	81.53	88.39	77.27	86.11	34.04	121.67	139.70
			3.210	3.480	3.042	3.390	1.340	4.790	5.500
	ST350-482	3/4"	86.87	93.73	83.06	91.19	35.31	121.67	153.19
			3.420	3.690	3.270	3.590	1.390	4.790	6.031
	ST350-483	3/4"	91.69	98.30	87.38	95.76	35.31	121.67	153.19
			3.610	3.870	3.440	3.770	1.390	4.790	6.031
	ST400-484	1"	96.77	102.36	91.44	99.82	36.58	122.94	166.69
			3.810	4.030	3.600	3.930	1.440	4.840	6.563
	ST400-485	1 1/4"	100.71	106.30	95.38	103.25	36.58	122.94	166.69
			3.965	4.185	3.755	4.065	1.440	4.840	6.563
	ST400-486	1 1/4"	104.65	110.24	99.31	107.19	36.58	122.94	166.69
			4.120	4.340	3.910	4.220	1.440	4.840	6.563

Jacketed metal-clad cable fittings for ordinary locations

STE Series



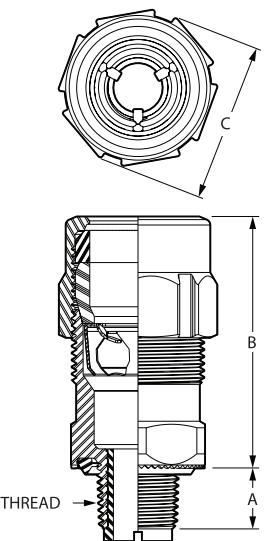
Features and benefits:

- Excellent pullout strength
- Robust metallic construction
- Quick and easy installation without disassembly
- Extended clamping range taking
- Provides grounding continuity of cable armor

STE Series - Jacketed metal-clad cable glands

Approvals & certifications		Conformity Conforms to:	Temperature range
		CSA C22.2 60079-0, C22.2 60079-7, C22.2 No.18.3, C22.2 No.25, C22.2 No.94, C22.2 No. 174, UL2279, UL514B, UL50	– 40°C to +90°C (–40°F to +194°F)
		c-CSA-us Certificate: 1105555 File 23086	
		Class I Div1 ABCD Class II Div1 EFG Class III Div1 (Refer to CEC)	
		Ex e II	
		UL File: E38947	
		Class I, Zone 1, AEx e II	
		Suitable for Class I Div2, Class II Div2 and Class III Div2	
			IP Rating
			Type 4X
			Material
			Copper free aluminium
			Zinc plated steel
			Stainless steel

Dimensions

NPT thread	Part no.	NPT thread	Cable range over jacket		Cable range over armour		Nominal dimensions (mm/in)		
			Min. (mm/in)	Max. (mm/in)	Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min
	STE050 DATA	1/2"	12.70	17.78	10.41	15.49	15.75	53.34	34.54
			0.500	0.700	0.410	0.610	0.620	2.100	1.360
	STE050	1/2"	15.24	25.02	13.21	22.73	15.75	64.01	41.40
			0.600	0.985	0.520	0.895	0.620	2.520	1.630
	STE075	3/4"	21.84	30.61	19.81	28.58	16.00	72.14	52.83
			0.860	1.205	0.780	1.125	0.630	2.840	2.080
	STE100	1"	24.13	34.93	22.10	32.89	19.94	76.71	58.42
			0.950	1.375	0.870	1.295	0.785	3.020	2.300
	STE125	1 1/4"	29.21	41.28	25.15	37.21	20.57	101.85	71.63
			1.150	1.625	0.990	1.465	0.810	4.010	2.820
	STE150	1 1/2"	36.58	49.91	32.51	45.85	20.96	108.97	82.55
			1.440	1.965	1.280	1.805	0.825	4.290	3.250
	STE200	2"	46.36	60.33	42.29	56.26	21.84	104.65	91.44
			1.825	2.375	1.665	2.215	0.860	4.120	3.600
	STE250	2 1/2"	57.53	72.14	53.47	68.07	32.51	144.02	120.65
			2.265	2.840	2.105	2.680	1.280	5.670	4.750
	STE300	3"	67.82	83.06	64.64	79.88	33.66	146.81	137.16
			2.670	3.270	2.545	3.145	1.325	5.780	5.400
	STE350	3 1/2"	81.79	98.30	78.49	92.46	35.31	145.80	149.86
			3.220	3.870	3.090	3.640	1.390	5.740	5.900
	STE400	4"	93.09	110.24	90.17	107.32	35.31	147.07	162.56
			3.665	4.340	3.550	4.225	1.390	5.790	6.400

Star Teck Extreme® Director™ for ordinary applications

STED Series



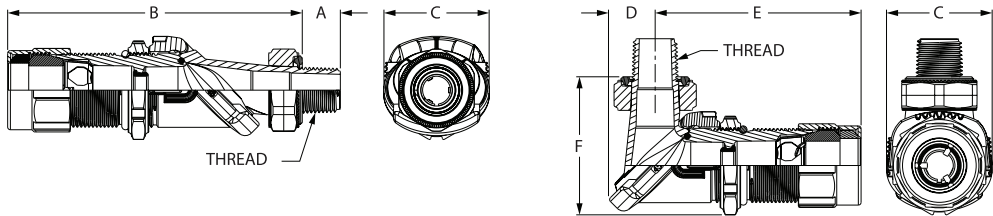
- Features and benefits:
- Excellent pullout strength
 - Robust metallic construction
 - Quick and easy installation without disassembly
 - Extended clamping range taking
 - Provides grounding continuity of cable armor

STED Series - Jacketed metal-clad cable glands

Approvals & certifications		Conformity	Temperature range	
		Conforms to:	- 40°C to +90°C (-40°F to +194°F)	
		CSA C22.2 60079-0, C22.2 60079-7, C22.2 No.18.3, C22.2 No.25, C22.2 No.94, C22.2 No. 174, UL2279, UL514B, UL50		
		c-CSA-us Certificate: 1105555 File 23086		
		Class I Div1 ABCD Class II Div1 EFG Class III Div1 (Refer to CEC)		
		Ex e II		
		UL File: E38947		
		Class I, Zone 1, AEx e II		
		Suitable for Class I Div 2, Class II Div 2 and Class III Div 2		
			IP Rating	Material
			Type 4X	Copper free aluminium
				Zinc plated steel
				Stainless steel

Dimensions

NPT thread	Part no.	NPT thread	Cable range over jacket		Cable range over armour		Nominal dimensions (mm/in)					
			Min. (mm/in)	Max. (mm/in)	Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min	D Min	E Min	F Min
	STED050	1/2"	15.24	22.48	13.21	20.19	17.46	136.53	49.21	20.64	96.84	63.50
			0.600	0.885	0.520	0.795	0.688	5.375	1.938	0.813	3.813	2.500
	STED075	3/4"	21.84	30.61	19.81	28.58	17.46	168.40	63.50	26.99	101.60	76.20
			0.860	1.205	0.780	1.125	0.688	6.630	2.500	1.063	4.000	3.000



Star Teck XP® jacketed metal-clad cable fittings for hazardous locations

STX Series



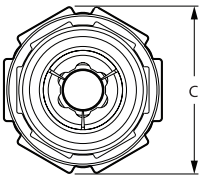
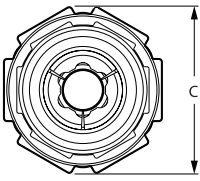
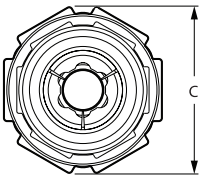
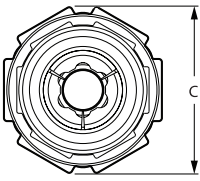
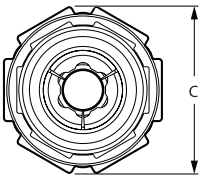
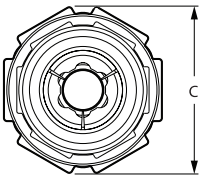
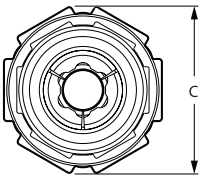
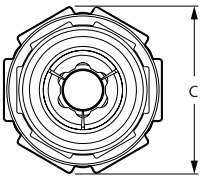
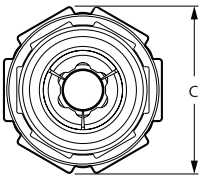
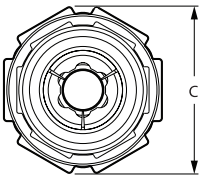
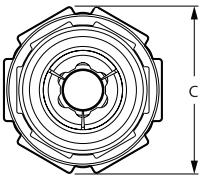
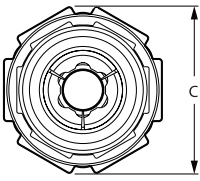
Features and benefits:

- Excellent solution for hazardous location
- Excellent pullout strength
- Robust metallic construction
- Quick and easy installation without disassembly
- Provides grounding continuity of cable armor
- Splined gland and gripping features for ease of installation

STX Series - Jacketed metal-clad cable glands

Approvals & certifications		Conformity Conforms to:	Temperature range
 		CSA C22.2 No.18.3, C22.2 No.25, C22.2 No.30, C22.2 No. 174, UL2225, UL514B	– 40°C to +90°C (–40°F to +194°F)
		CSA Certificate: 1310604 File 23086	
		Class I Div1 ABCD Class II Div1 EFG Class III Div1	
		UL: E82038	
		Class I Div1 ABCD Class II Div1 EFG Class III Div1	
		IP Rating	Material
		Type 4 / 4X	Copper free aluminium
			Zinc plated steel
			PVC coating available for both

Dimensions

NPT thread	Part no.	NPT thread	Cable range over jacket		Cable range over armour		Nominal dimensions (mm/in)		
			Min. (mm/in)	Max. (mm/in)	Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min
	STX050-462	1/2"	13.34	16.51	10.54	14.48	20.07	63.50	41.40
			0.525	0.650	0.415	0.570	0.790	2.500	1.630
	STX050-464	1/2"	15.24	19.30	12.45	17.27	20.07	63.50	41.40
			0.600	0.760	0.490	0.680	0.790	2.500	1.630
	STX075-465	3/4"	18.42	22.48	15.62	20.45	20.07	66.55	46.23
			0.725	0.885	0.615	0.805	0.790	2.620	1.820
	STX075-466	3/4"	20.96	25.02	18.16	22.99	20.07	66.55	46.23
			0.825	0.985	0.715	0.905	0.790	2.620	1.820
	STX100-467	1"	22.35	27.05	19.56	25.02	25.02	71.88	61.98
			0.880	1.065	0.770	0.985	0.985	2.830	2.440
	STX100-468	1"	26.04	30.61	23.24	28.58	25.02	71.88	61.98
			1.025	1.205	0.915	1.125	0.985	2.830	2.440
	STX125-469	1 1/4"	30.15	34.93	27.36	32.89	25.65	77.47	64.01
			1.187	1.375	1.077	1.295	1.010	3.050	2.520
	STX150-470	1 1/2"	34.29	41.28	31.50	39.24	26.16	95.50	83.31
			1.350	1.625	1.240	1.545	1.030	3.760	3.280
	STX150-550	1 1/2"	38.10	41.28	35.31	39.24	26.16	95.50	83.31
			1.500	1.625	1.390	1.545	1.030	3.760	3.280
	STX150-471	1 1/2"	40.64	47.63	37.85	45.59	26.16	95.50	83.31
			1.600	1.875	1.490	1.795	1.030	3.760	3.280
	STX200-472	2"	43.18	49.91	40.39	47.88	26.92	102.87	92.46
			1.700	1.965	1.590	1.885	1.060	4.050	3.640
	STX200-473	2"	48.26	55.55	45.47	53.52	26.92	102.87	92.46
			1.900	2.187	1.790	2.107	1.060	4.050	3.640

Star Teck XP® for hazardous locations

STX Series

Dimensions

NPT thread	Part no.	NPT thread	Cable range over jacket		Cable range over armour		Nominal dimensions (mm/in)		
			Min. (mm/in)	Max. (mm/in)	Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min
	STX200-474	2"	53.34	60.33	50.55	57.91	26.92	105.41	102.87
			2.100	2.375	1.990	2.280	1.060	4.150	4.050
	STX250-475	2 1/2"	58.42	65.15	55.63	63.12	40.13	109.47	115.32
			2.300	2.565	2.190	2.485	1.580	4.310	4.540
	STX250-476	2 1/2"	63.50	69.85	60.71	67.46	40.13	109.47	115.32
			2.500	2.750	2.390	2.656	1.580	4.310	4.540
	STX300-478	3"	65.53	72.14	61.98	69.85	41.66	143.26	125.22
			2.580	2.840	2.440	2.750	1.640	5.640	4.930
	STX300-479	3"	70.87	77.72	67.06	75.44	41.66	147.32	133.35
			2.790	3.060	2.640	2.970	1.640	5.800	5.250
	STX350-480	3 1/2"	76.20	83.06	72.90	81.03	42.93	160.53	147.07
			3.000	3.270	2.870	3.190	1.690	6.320	5.790
	STX350-481	3 1/2"	81.53	88.39	77.27	86.11	42.93	160.53	147.07
			3.210	3.480	3.042	3.390	1.690	6.320	5.790
	STX400-482	4"	86.87	93.73	83.06	91.19	44.20	168.40	157.23
			3.420	3.690	3.270	3.590	1.740	6.630	6.190
	STX400-483	4"	91.69	98.30	87.38	95.76	44.20	168.40	157.23
			3.610	3.870	3.440	3.770	1.740	6.630	6.190
	STX400-484	4"	96.77	102.36	91.44	99.82	44.20	180.09	175.26
			3.810	4.030	3.600	3.930	1.740	7.090	6.900
	STX400-485	4"	100.71	106.30	95.38	103.25	44.20	180.09	175.26
			3.965	4.185	3.755	4.065	1.740	7.090	6.900

STEX Series



- Excellent solution for hazardous location
- Excellent pullout strength
- Robust metallic construction
- Quick and easy installation without disassembly
- Provides grounding continuity of cable armor
- Splined gland and gripping features for ease of installation

	Conformity Conforms to:
Approvals and certifications	
	CSA C22.2 No.18.3, C22.2 No.25, C22.2 No.30, C22.2 No. 174, UL2225, UL514B
	CSA Certificate: 1310604 File 23086
	Class I Div1 ABCD Class II Div1 EFG Class III Div1
	UL File: E82038
	Class I Div1 ABCD Class II Div1 EFG Class III Div1

Temperature range	
- 40°C to +90°C (-40°F to +194°F)	
IP Rating	Material
Type 4 / 4X	Copper free aluminium Zinc plated steel PVC coating available for both

NPT thread	Part no.	NPT thread	Cable range over jacket		Cable range over armour		Nominal dimensions (mm/in)		
			Min. (mm/in)	Max. (mm/in)	Min. (mm/in)	Max. (mm/in)	A Min	B Min	C Min
	STEX075	3/4"	15.24	25.02	13.21	22.73	20.07	86.36	46.23
			0.600	0.985	0.520	0.895	0.790	3.400	1.820
	STEX100	1"	21.84	30.61	19.81	28.58	25.02	90.93	61.98
			0.860	1.205	0.780	1.125	0.985	3.580	2.440
	STEX125	1 1/4"	24.13	34.93	22.10	32.89	25.65	99.57	64.01
			0.950	1.375	0.870	1.295	1.010	3.920	2.520
	STEX150	1 1/2"	29.21	41.28	25.15	37.21	26.16	127.51	83.31
			1.150	1.625	0.990	1.465	1.030	5.020	3.280
	STEX200	2"	36.58	49.91	32.51	45.85	26.92	130.05	92.46
			1.440	1.965	1.280	1.805	1.060	5.120	3.640
	STEX250	2 1/2"	46.36	60.33	42.29	56.26	40.13	131.32	115.32
			1.825	2.375	1.665	2.215	1.580	5.170	4.540
	STEX300	3"	57.53	72.14	53.47	68.07	41.66	167.89	125.22
			2.265	2.840	2.105	2.680	1.640	6.610	4.930
	STEX350	3 1/2"	67.82	83.06	64.64	79.88	42.93	187.45	147.07
			2.670	3.270	2.545	3.145	1.690	7.380	5.790
	STEX400	4"	81.79	98.30	78.49	92.46	44.20	194.31	157.23
			3.220	3.870	3.090	3.640	1.740	7.650	6.190

Ex d Standard stopping plug

SP Series



SP Series - Stopping plugs - standard Ex d

Approvals & certifications		Conformity Conforms to:	Temperature range
		ATEX: Baseefa08ATEX0324	-20°C to +200°C (-4°F to +392°F)
		IECEX: IECEX BAS08.0109X	
		ETL: 3176087	Material Brass, nickel plated brass or stainless steel
		UL 1203 (Nickel Plated Brass and Stainless Steel only)	
		EAC Ex: RU C-GB AA87.00198	
		CNEX 15.1691X	
		Ⓔ I M2 / II 2 G, Ex d I Mb, Ex d IIC Gb	
		Class I Div 1 ABCD	
		Class II Div 1 EFG	

Standard Ex d stopping plug – metric thread

Nickel plated Part no.	Metric Thread Size (mm)	Brass Part no.	Metric Thread Size (mm)	Stainless steel Part no.	Metric Thread Size (mm)
EXN/M16/SP	M16	EX/M16/SP	M16	EXS/M16/SP	M16
EXN/M20/SP	M20	EX/M20/SP	M20	EXS/M20/SP	M20
EXN/M25/SP	M25	EX/M25/SP	M25	EXS/M25/SP	M25
EXN/M32/SP	M32	EX/M32/SP	M32	EXS/M32/SP	M32
EXN/M40/SP	M40	EX/M40/SP	M40	EXS/M40/SP	M40
EXN/M50/SP	M50	EX/M50/SP	M50	EXS/M50/SP	M50
EXN/M63/SP	M63	EX/M63/SP	M63	EXS/M63/SP	M63

Standard Ex d stopping plug – NPT thread

Nickel plated Part no.	NPT Thread Size (in)	Brass Part no.	NPT Thread Size (in)	Stainless steel Part no.	NPT Thread Size (in)
EXN/038/SP	3/8	EX/038/SP	3/8	EXS/038/SP	3/8
EXN/050/SP	1/2	EX/050/SP	1/2	EXS/050/SP	1/2
EXN/075/SP	3/4	EX/075/SP	3/4	EXS/075/SP	3/4
EXN/100/SP	1	EX/100/SP	1	EXS/100/SP	1
EXN/125/SP	1 1/4	EX/125/SP	1 1/4	EXS/125/SP	1 1/4
EXN/150/SP	1 1/2	EX/150/SP	1 1/2	EXS/150/SP	1 1/2
EXN/200/SP	2	EX/200/SP	2	EXS/200/SP	2

* For unplated brass version, remove N from reference, e.g. EX/M16/SP
N.B. PG thread convertors available upon request

** For stainless steel 316 version, add S to the reference, e.g. EXS/M16/SP

Ex d Tamperproof stopping plug

TSP Series



SP Series - Stopping plugs - standard Ex d

Approvals & certifications		Conformity Conforms to:	Temperature range
  		ATEX: Baseefa08ATEX0324	-20°C to +200°C (-4°F to +392°F)
		IECEX: IECEX BAS08.0109X	
		ETL: 3176087	Material
		UL 1203 (Nickel Plated Brass and Stainless Steel only)	
		EAC Ex: RU C-GB AA87.00198	
		CNEX 15.1691X	
		Ⓔ I M2 / II 2 G, Ex d I Mb, Ex d IIC Gb	
		Class I Div 1 ABCD	Brass, nickel plated brass or stainless steel
		Class II Div 1 EFG	

Tamperproof Ex d stopping plug – metric thread

Nickel plated Part no.	TSP	Metric Thread Size (mm)	Brass Part no.	Metric Thread Size (mm)	Stainless steel Part no.	Metric Thread Size (mm)
EXN/M16/TSP		M16	EX/M16/TSP	M16	EXS/M16/TSP	M16
EXN/M20/TSP		M20	EX/M20/TSP	M20	EXS/M20/TSP	M20
EXN/M25/TSP		M25	EX/M25/TSP	M25	EXS/M25/TSP	M25
EXN/M32/TSP		M32	EX/M32/TSP	M32	EXS/M32/TSP	M32
EXN/M40/TSP		M40	EX/M40/TSP	M40	EXS/M40/TSP	M40
EXN/M50/TSP		M50	EX/M50/TSP	M50	EXS/M50/TSP	M50
EXN/M63/TSP		M63	EX/M63/TSP	M63	EXS/M63/TSP	M63

Tamperproof Ex d stopping plug – NPT thread

Nickel plated Part no.	NPT Thread Size (in)	Brass Part no.	NPT Thread Size (in)	Stainless steel Part no.	NPT Thread Size (in)
EXN/038/TSP	3/8	EX/038/TSP	3/8	EXS/038/TSP	3/8
EXN/050/TSP	1/2	EX/050/TSP	1/2	EXS/050/TSP	1/2
EXN/075/TSP	3/4	EX/075/TSP	3/4	EXS/075/TSP	3/4
EXN/100/TSP	1	EX/100/TSP	1	EXS/100/TSP	1
EXN/125/TSP	1 1/4	EX/125/TSP	1 1/4	EXS/125/TSP	1 1/4
EXN/150/TSP	1 1/2	EX/150/TSP	1 1/2	EXS/150/TSP	1 1/2
EXN/200/TSP	2	EX/200/TSP	2	EXS/200/TSP	2

* For unplated brass version, remove N from reference, e.g. EX/M16/TSP ** For stainless steel 316 version, add S to the reference, e.g. EXS/M16/TSP
N.B. PG thread converters available upon request

HSP Series



Approvals & certifications 	Conformity		Temperature range	
	Conforms to:			
	ATEX: Baseefa08ATEX0325X		-60°C to +130°C (-76°F to +266°F)	
	IECEx: IECEx BAS08.0108X			
	EAC Ex: RU C-GB AA87.00198		IP Rating	Material
	CNEX: CNEX 15.1656X		IP65/66	Brass, nickel plated brass or stainless steel
	Ⓜ I M2 / II 2 GD, Ex de I Mb, Ex de IIC Gb Ex tb IIIC Db			

Nickel plated		Metric		Stainless Steel	
Part no.	Thread Size (mm)	Part no.	Thread Size (mm)	Part no.	Thread Size (mm)
EXN/M16/HSP	M16	EX/M16/HSP	M16	EXS/M16/HSP	M16
EXN/M20/HSP	M20	EX/M20/HSP	M20	EXS/M20/HSP	M20
EXN/M25/HSP	M25	EX/M25/HSP	M25	EXS/M25/HSP	M25
EXN/M32/HSP	M32	EX/M32/HSP	M32	EXS/M32/HSP	M32
EXN/M40/HSP	M40	EX/M40/HSP	M40	EXS/M40/HSP	M40
EXN/M50/HSP	M50	EX/M50/HSP	M50	EXS/M50/HSP	M50
EXN/M63/HSP	M63	EX/M63/HSP	M63	EXS/M63/HSP	M63

* For unplated brass version, remove N from reference, e.g. EX/M16/SP ** For stainless steel 316 version, add S to the reference, e.g. EXS/M16/HSP
N.B. PG thread convertors available upon request

DSP Series



Approvals & certifications		Conformity Conforms to:	Temperature range
	ATEX: Baseefa08ATEX0325X		-60°C to +130°C (-76°F to +266°F)
	IECEx: IECEx BAS08.0108X		
	EAC Ex: RU C-GB AA87.00198		
	CNEX: CNEX 15.1656X	IP Rating	Material
	Ⓢ I M2 / II 2 GD, Ex de I Mb, Ex de II C Gb	IP65/66	Brass, nickel plated brass or stainless steel
		Ex tb IIIC Db	

Nickel plated Part no.	Metric Thread Size (in)	Brass Part no.	Metric Thread Size (in)	Stainless Steel Part no.	Metric Thread Size (in)
EXN/M16/DSP	M16	EX/M16/DSP	M16	EXS/M16/DSP	M16
EXN/M20/DSP	M20	EX/M20/DSP	M20	EXS/M20/DSP	M20
EXN/M25/DSP	M25	EX/M25/DSP	M25	EXS/M25/DSP	M25
EXN/M32/DSP	M32	EX/M32/DSP	M32	EXS/M32/DSP	M32
EXN/M40/DSP	M40	EX/M40/DSP	M40	EXS/M40/DSP	M40
EXN/M50/DSP	M50	EX/M50/DSP	M50	EXS/M50/DSP	M50
EXN/M63/DSP	M63	EX/M63/DSP	M63	EXS/M63/DSP	M63

* For unplated brass version, remove N from reference, e.g. EX/M16/SP
N.B. PG thread convertors available upon request

Ex e Nylon stopping plug



Ex e Nylon stopping plugs

Approvals & certifications		Conformity	Temperature range	
  		Conforms to:	-60°C to +130°C (-76°F to +266°F)	
		IMQ 13 ATEX 016X, IECEx IMQ		
		Ex II 2 GD, Ex e IIC Gb, Ex tb IIIC Db		
			IP Rating	Material
			IP66-IP68 (5 Bar 30 Mins)	Nylon

Nylon stopping plug – metric thread

Nickel plated Part no.	Metric Thread Size (mm)
EX/M16/TSP	M16
EX/M20/TSP	M20
EX/M25/TSP	M25
EX/M32/TSP	M32
EX/M40/TSP	M40
EX/M50/TSP	M50
EX/M63/TSP	M63

Ex d e Thread adaptors

TC Series



TC Series - Ex d e thread adaptors

Approvals & certifications		Conformity	Temperature range
  		ATEX: Baseefa07 ATEX 0247X	-60°C to + 100°C (-76°F to +212°F)
		IECEX: IECEX BAS07.0090X	
		EAC Ex: RU C-GB AA87.00198	
		CNEX: CNEX 15.1689X	
		Ⓜ I M2 / II 2 GD, Ex d e I Mb, Ex d e IIC Gb, Ex tb IIIC Db	Material
		Class I Div1 ABCD, Class II Div1 EFG (does not include M16 & 3/8"NPT or unplated brass products)	
		UL 1203	Brass, nickel plated brass or stainless steel
		CSA C22.2 No.60079-04	
		C22.2 No.60079-1	

Metallic thread adaptor – metric thread

Male external thread		Metric Female Internal Thread						
Nickel plated	M16	M20	M25	M32	M40	M50	M63	M75
M16		EXN/M16-M20/E	EXN/M16-M25/E					
M20	EXN/M20-M16/R		EXN/M20-M25/E	EXN/M20-M32/E				
M25	EXN/M25-M16/R	EXN/M25-M20/R		EXN/M25-M32/E	EXN/M25-M40/E			
M32	EXN/M32-M16/R	EXN/M32-M20/R	EXN/M32-M25/R		EXN/M32-M40/E	EXN/M32-M50/E		
M40	EXN/M40-M16/R	EXN/M40-M20/R	EXN/M40-M25/R	EXN/M40-M32/R		EXN/M40-M50/E	EXN/M40-M63/E	
M50	EXN/M50-M16/R	EXN/M50-M20/R	EXN/M50-M25/R	EXN/M50-M32/R	EXN/M50-M40/R		EXN/M50-M63/E	EXN/M50-M75/E
M63	EXN/M63-M16/R	EXN/M63-M20/R	EXN/M63-M25/R	EXN/M63-M32/R	EXN/M63-M40/R	EXN/M63-M50/R		EXN/M63-M75/E
M75	EXN/M75-M16/R	EXN/M75-M20/R	EXN/M75-M25/R	EXN/M75-M32/R	EXN/M75-M40/R	EXN/M75-M50/R	EXN/M75-M63/R	
NPT 3/8	EXN/038-M16/TC							
NPT 1/2	EXN/050-M16/TC	EXN/050-M20/TC	EXN/050-M25/TC					
NPT 3/4	EXN/075-M16/TC	EXN/075-M20/TC	EXN/075-M25/TC	EXN/075-M32/TC				
NPT 1	EXN/100-M16/TC	EXN/100-M20/TC	EXN/100-M25/TC	EXN/100-M32/TC	EXN/100-M40/TC			
NPT 1 1/4	EXN/125-M16/TC	EXN/125-M20/TC	EXN/125-M25/TC	EXN/125-M32/TC	EXN/125-M40/TC	EXN/125-M50/TC		
NPT 1 1/2	EXN/150-M16/TC	EXN/150-M20/TC	EXN/150-M25/TC	EXN/150-M32/TC	EXN/150-M40/TC	EXN/150-M50/TC	EXN/150-M63/TC	
NPT 2	EXN/200-M16/TC	EXN/200-M20/TC	EXN/200-M25/TC	EXN/200-M32/TC	EXN/200-M40/TC	EXN/200-M50/TC	EXN/200-M63/TC	
NPT 2 1/2	EXN/250-M16/TC	EXN/250-M20/TC	EXN/250-M25/TC	EXN/250-M32/TC	EXN/250-M40/TC	EXN/250-M50/TC		
NPT 3	EXN/300-M16/TC	EXN/300-M20/TC	EXN/300-M25/TC	EXN/300-M32/TC	EXN/300-M40/TC	EXN/300-M50/TC		EXN/300-M75/TC

* For unplated brass version, remove N from reference, e.g. EX/M16/SP ** For stainless steel 316 version, add S to the reference, e.g. EXS/M16/SP
N.B. PG thread converters available upon request

Ex d e Thread adaptors

TC Series

—

Metallic thread adaptor – NPT thread

Male external thread	NPT Female Internal Thread								
	Nickel plated	NPT 1/2	NPT 3/4	NPT 1	NPT 1 ¹ /4	NPT 1 ¹ /2	NPT 2	NPT 2 ¹ /2	NPT 3
M16	EXN/M16-050/TC								
M20	EXN/M20-050/TC EXN/M20-075/TC								
M25	EXN/M25-050/TC EXN/M25-075/TC EXN/M25-100/TC								
M32	EXN/M32-050/TC EXN/M32-075/TC EXN/M32-100/TC EXN/M32-125/TC								
M40	EXN/M40-050/TC EXN/M40-075/TC EXN/M40-100/TC EXN/M40-125/TC EXN/M40-150/TC								
M50	EXN/M50-050/TC EXN/M50-075/TC EXN/M50-100/TC EXN/M50-125/TC EXN/M50-150/TC EXN/M50-200/TC								
M63	EXN/M63-050/TC EXN/M63-075/TC EXN/M63-100/TC EXN/M63-125/TC EXN/M63-150/TC EXN/M63-200/TC								
M75	EXN/M75-050/TC EXN/M75-075/TC EXN/M75-100/TC EXN/M75-125/TC EXN/M75-150/TC EXN/M75-200/TC								
NPT 1/2	EXN/050-075/E								
NPT 3/4	EXN/075-050/R			EXN/075-100/E					
NPT 1	EXN/100-050/R		EXN/100-075/R		EXN/100-125/E				
NPT 1 1/4	EXN/125-050/R		EXN/125-075/R		EXN/125-100/R		EXN/125-150/E		
NPT 1 1/2	EXN/150-050/R		EXN/150-075/R		EXN/150-100/R		EXN/150-125/R		EXN/150-200/E
NPT 2	EXN/200-050/R		EXN/200-075/R		EXN/200-100/R		EXN/200-125/R		EXN/200-150/R
NPT 2 1/2	EXN/250-050/R		EXN/250-075/R		EXN/250-100/R		EXN/250-125/R		EXN/250-150/R
NPT 3	EXN/300-050/R		EXN/300-075/R		EXN/300-100/R		EXN/300-125/R		EXN/300-150/R
							EXN/300-200/R		EXN/300-250/R

Ex d e Coupler



Ex d e Coupler

Approvals & certifications		Conformity	Temperature range
		Conforms to:	
		ATEX: Baseefa 08 ATEX 0003X	-60°C to +200°C (-76°F to +392°F)
		Ex de IIC Gb	
		Ex tb IIIC Db	
			Material
			Brass, nickel plated brass or stainless steel

Ex d e Coupler - Metric thread

Nickel plated Part no.	Metric Thread Size (mm)	Brass Part no.	Metric Thread Size (mm)	Stainless Steel Part no.	Metric Thread Size (mm)
EXN/M16/C	M16	EX/M16/C	M16	EXS/M16/C	M16
EXN/M20/C	M20	EX/M20/C	M20	EXS/M20/C	M20
EXN/M25/C	M25	EX/M25/C	M25	EXS/M25/C	M25
EXN/M32/C	M32	EX/M32/C	M32	EXS/M32/C	M32
EXN/M40/C	M40	EX/M40/C	M40	EXS/M40/C	M40
EXN/M50/C	M50	EX/M50/C	M50	EXS/M50/C	M50
EXN/M63/C	M63	EX/M63/C	M63	EXS/M63/C	M63
EXN/M75/C	M75	EX/M75/C	M75	EXS/M75/C	M75

Ex d e Female to female coupler - NPT thread

Nickel plated Part no.	NPT Thread Size (in)	Brass Part no.	NPT Thread Size (in)	Stainless Steel Part no.	NPT Thread Size (in)
EXN/038/C	3/8	EX/038/C	3/8	EXS/038/C	3/8
EXN/050/C	1/2	EX/050/C	1/2	EXS/050/C	1/2
EXN/075/C	3/4	EX/075/C	3/4	EXS/075/C	3/4
EXN/100/C	1	EX/100/C	1	EXS/100/C	1
EXN/125/C	1 1/4	EX/125/C	1 1/4	EXS/125/C	1 1/4
EXN/150/C	1 1/2	EX/150/C	1 1/2	EXS/150/C	1 1/2
EXN/200/C	2	EX/200/C	2	EXS/200/C	2
EXN/250/C	2 1/2	EX/250/C	2 1/2	EXS/250/C	2 1/2

Ex e Drain valves

Ex e drainage device



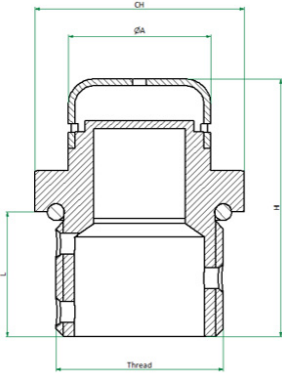
Features and benefits:

- Increased safety Ex e
- Suitable for use in Zone 1, 2, 21 and 22
- Allows Water/Condensation to drain from enclosure

DV Series - Ex e metallic drain valve

Approvals & certifications	Conformity	Temperature range	
	Conforms to:		
  	IMQ 15 ATEX 012U, IECEx IMQ	-60°C to +200°C (-76°F to +392°F)	
	Ex II 2 GD		
	Ex e IIC Gb	IP Rating	Material
	Ex tb IIC Db	IP66	Nickel plated brass Stainless steel

Dimensions

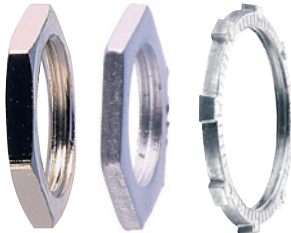
Nominal dimensions (mm/in)						
Metric thread	Part no.	Thread	Length	H Min	QA	CH
	EXN/M20/DV	M20	15.0 0.590	31.0 1.220	17.0 0.669	25.0 0.984
	EXN/M25/DV	M25	15.0 0.590	31.0 1.220	17.0 0.669	32.0 1.259
	EXN/050/DV	1/2" NPT	16.0 0.629	32.0 1.259	17.0 0.669	25.0 0.984
	EXN/075/DV	3/4" NPT	16.0 0.629	32.0 1.259	17.0 0.669	32.0 1.259
	EXS/M20/DV	M20	15.0 0.590	31.0 1.220	17.0 0.669	25.0 0.984
	EXS/M25/DV	M25	15.0 0.590	31.0 1.220	17.0 0.669	32.0 1.259
	EXS/050/DV	1/2" NPT	16.0 0.629	32.0 1.259	17.0 0.669	25.0 0.984
	EXS/075/DV	3/4" NPT	16.0 0.629	32.0 1.259	17.0 0.669	32.0 1.259



Accessories

Type LNB / LNS / LNP & SW

Type LNB / LNS - Metallic locknuts

	Part no.			Part no.		Part no.	
	Metallic thread	Nickel plated Brass	Galvanised steel	PG thread	Nickel plated Brass	NPT thread (in)	Steel
	M12 x 1.0	LNB/M12X1		PG7	LNB/PG7	3/8	LNS/038
	M12 x 1.5	LNB/M12		PG9	LNB/PG9	1/2	LNS/050
	M16	LNB/M16	LNS/M16	PG11	LNB/PG11	3/4	LNS/075
	M20	LNB/M20	LNS/M20	PG13.5	LNB/PG13	1	LNS/100
	M25	LNB/M25	LNS/M25	PG16	LNB/PG16	1 1/4	LNS/125
	M32	LNB/M32	LNS/M32	PG21	LNB/PG21	1 1/2	LNS/150
	M40	LNB/M40		PG29	LNB/PG29	2	LNS/200
	M50	LNB/M50		PG36	LNB/PG36		
M63	LNB/M63		PG42	LNB/PG42			
M75	LNB/M75		PG48	LNB/PG48			

Type LNP - Non metallic locknuts

	Part no.			Part no.		
	Metric thread	Black	Grey	PG thread	Black	Grey
	M12	LNPB/M12	–	PG7	LNPB/PG7	LNPG/PG7
	M16	LNPB/M16	LNPB/M16	PG9	LNPB/PG9	LNPG/PG9
	M20	LNPB/M20	LNPG/M20	PG11	LNPB/PG11	LNPG/PG11
	M25	LNPB/M25	LNPG/M25	PG13	LNPB/PG13	LNPG/PG13
	M32	LNPB/M32	LNPG/M32	PG16	LNPB/PG16	LNPG/PG16
	M40	LNPB/M40	LNPG/M40	PG21	LNPB/PG21	LNPG/PG21
	M50	LNPB/M50	LNPG/M50	PG29	LNPB/PG29	LNPG/PG29
	M63	LNPB/M63	LNPG/M63	PG36	LNPB/PG36	LNPG/PG36
			PG42	LNPB/PG42	LNPG/PG42	
			PG48	LNPB/PG48	LNPG/PG48	

Type SW - Thread sealing washer

	Metric thread	Part no.	PG thread	Part no.	NPT & PF thread (in)	Part no.
	M12	SWM12*	PG07	SWPG07	3/8	SW038
	M16	SWM16	PG09	SWPG09	1/2	SW050
	M20	SWM20	PG11	SWPG11	3/4	SW075
	M25	SWM25	PG13	SWPG13	1	SW100
	M32	SWM32	PG16	SWPG16	1 1/4	SW125
	M40	SWM40	PG21	SWPG21	1 1/2	SW150
	M50	SWM50	PG29	SWPG29	2	SW200
	M63	SWM63	PG36	SWPG36		
			PG42	SWPG42		
		PG48	SWPG48			

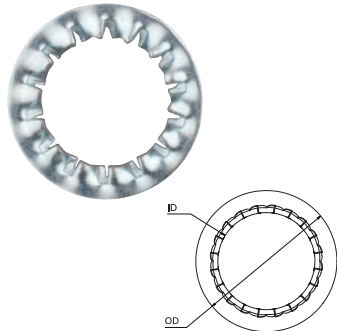
Accessories

Coupler, serrated washer & earth tag

Brass internal female coupler

	Metric thread	Part no.
	M16	B/M16/C
	M20	B/M20/C
	M25	B/M25/C
	M32	B/M32/C
	M40	B/M40/C
	M50	B/M50/C
	M63	B/M63/C
	M75	B/M75/C

Serrated washer - metric

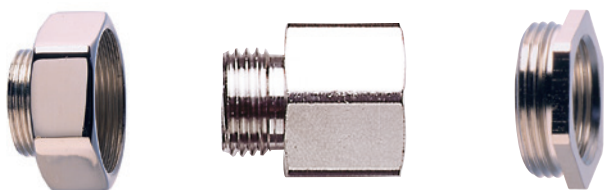
	Part no.	Metric thread size (mm)	Diameter (mm)	
			Inside	Outside
	EX/M16/SER	M16	17.5	28.0
	EX/M20/SER	M20	21.9	33.0
	EX/M25/SER	M25	26.2	40.0
	EX/M32/SER	M32	33.0	48.1
	EX/M40/SER	M40	41.5	60.2
	EX/M53/SER	M50	51.5	70.0
	EX/M63/SER	M63	64.6	86.8

Earth tag - metric

	Part no.	Diameter (mm)		
		A	B	C
	EX/M16/TAG	16.2 / 16.5	6.5 / 7.0	28.0 / 28.5
	EX/M20/TAG	20.2 / 20.5	6.5 / 7.0	28.0 / 28.5
	EX/M25/TAG	25.2 / 25.7	6.1 / 6.6	30.5 / 31.0
	EX/M32/TAG	32.2 / 32.8	12.2 / 12.7	40.0 / 40.5
	EX/M40/TAG	40.2 / 40.7	13.0 / 13.5	45.0 / 45.5
	EX/M50/TAG	51.0 / 51.5	13.0 / 13.5	58.0 / 58.5
	EX/M63/TAG	63.7 / 64.2	13.0 / 13.5	65.0 / 65.5
	EX/M75/TAG	76.4 / 76.9	13.0 / 13.5	75.5 / 76.0

Accessories

Type E, R & TC



Type E / Type R / Type C -Enlargers, reducers and converters

External thread	To PG7 Internal thread	To PG9 Internal thread	To PG11 Internal thread	To PG13.5 Internal thread	To PG16 Internal thread	To PG21 Internal thread
M16	B/M16-PG7/TC	B/M16-PG9/TC	B/M16-PG11/TC			
M20	B/M20-PG7/TC	B/M20-PG9/TC	B/M20-PG11/TC	B/M20-PG13/TC	B/M20-PG16/TC	B/M20-PG21/TC
M25						B/M25-PG21/TC
M32						
M40						
M50						
PG7		B/PG7-PG9/E				
PG9	B/PG9-PG7/R		B/PG9-PG11/E	B/PG9-PG13/E		
PG11	B/PG11-PG7/R	B/PG11-PG9/R		B/PG11-PG13/E	B/PG11-PG16/E	
PG13,5	B/PG13-PG7/R	B/PG13-PG9/R	B/PG13-PG11/R		B/PG13-PG16/E	B/PG13-PG21/E
PG16	B/PG16-PG7/R	B/PG16-PG9/R	B/PG16-PG11/R	B/PG16-PG13/R		B/PG16-PG21/E
PG21			B/PG21-PG11/R	B/PG21-PG13/R	B/PG21-PG16/R	
PG29					B/PG29-PG16/R	B/PG29-PG21/R
PG36						B/PG36-PG21/R
PG42						
PG48						

External thread	To M10 Internal thread	To M12 Internal thread	To M16 Internal thread	To M20 Internal thread	To M25 Internal thread	To M32 Internal thread
M16		B/M16-M12/R		B/M16-M20/E		
M20	B/M20-M10/R	B/M20-M12/R	B/M20-M16/R		B/M20-M25/E	
M25				B/M25-M20/R		B/M25-M32/E
M32					B/M32-M25/R	
M40						B/M40-M32/R
M50						
PG7			B/PG7-M16/TC	B/PG7-M20/TC		
PG9			B/PG9-M16/TC	B/PG9-M20/TC		
PG11			B/PG11-M16/TC	B/PG11-M20/TC		
PG13,5			B/PG13-M16/TC	B/PG13-M20/TC		
PG16			B/PG16-M16/TC	B/PG16-M20/TC	B/PG16-M25/TC	
PG21			B/PG21-M16/TC	B/PG21-M20/TC	B/PG21-M25/TC	B/PG21-M32/TC
PG29				B/PG29-M20/TC	B/PG29-M25/TC	B/PG29-M32/TC
PG36						B/PG36-M32/TC
PG42						
PG48						
			B/050-M16/TC	B/050-M20/TC		

Accessories

Boots



Long

Part no.	Diameter		Height	
	(mm)	(in)	(mm)	(in)
BT01	29.1	1.146	67.0	2.638
BT02	31.7	1.248	68.0	2.677
BT03	35.2	1.386	76.6	3.016
BT04	37.2	1.465	78.6	3.094
BT05	44.2	1.74	81.6	3.213
BT06	57.2	2.252	112.0	4.409
BT07	66.2	2.606	117.1	4.61
BT08	82.2	3.236	132.6	5.22
BT09	83.2	3.276	132.6	5.22
BT10	89.7	3.531	148.0	5.827
BT11	94.2	3.709	143.8	5.661
BT12	110.6	4.354	182.7	7.193

Short

Part no.	Diameter		Height	
	(mm)	(in)	(mm)	(in)
BTS01	24.5	0.965	56.1	2.209
BTS02	31.0	1.22	67.5	2.657
BTS03	39.0	1.535	72.6	2.858
BTS04	49.5	1.949	91.7	3.61
BTS05	56.1	2.209	88.0	3.465
BTS06	61.0	2.402	88.0	3.465
BTS07	70.1	2.76	93.9	3.697
BTS08	74.9	2.949	95.5	3.76
BTS09	89.0	3.504	108.6	4.276
BTS10	105.0	4.134	126.3	4.972
BTS11	117.0	4.606	163.5	6.437

To PG29 Internal thread	To PG36 Internal thread	To PG42 Internal thread	To PG48 Internal thread
B/M32-PG29/TC			
B/PG21-PG29/E			
B/PG29-PG36/E			
B/PG36-PG29/R	B/PG36-PG42/E		B/PG36-PG48/E
B/PG42-PG29/R	B/PG42-PG36/R	B/PG42-PG48/E	
B/PG48-PG36/R		B/PG48-PG42/R	

To M40 Internal thread	To 1/2" NPT Internal thread
B/M20-050/TC	
B/M50-M40/R	
B/PG11-050/TC	
B/PG16-050/TC	
B/PG29-M40/TC	
B/PG36-M40/TC	

Certifications and Standards

Global Guide

Africa, Australia, Asia (IECEX)

Canada (CSA & IECEx)

South America (UL and IECEx)

Europe (ATEX and IECEx)

USA, Mexico (UL)

Brazil (InMetro)

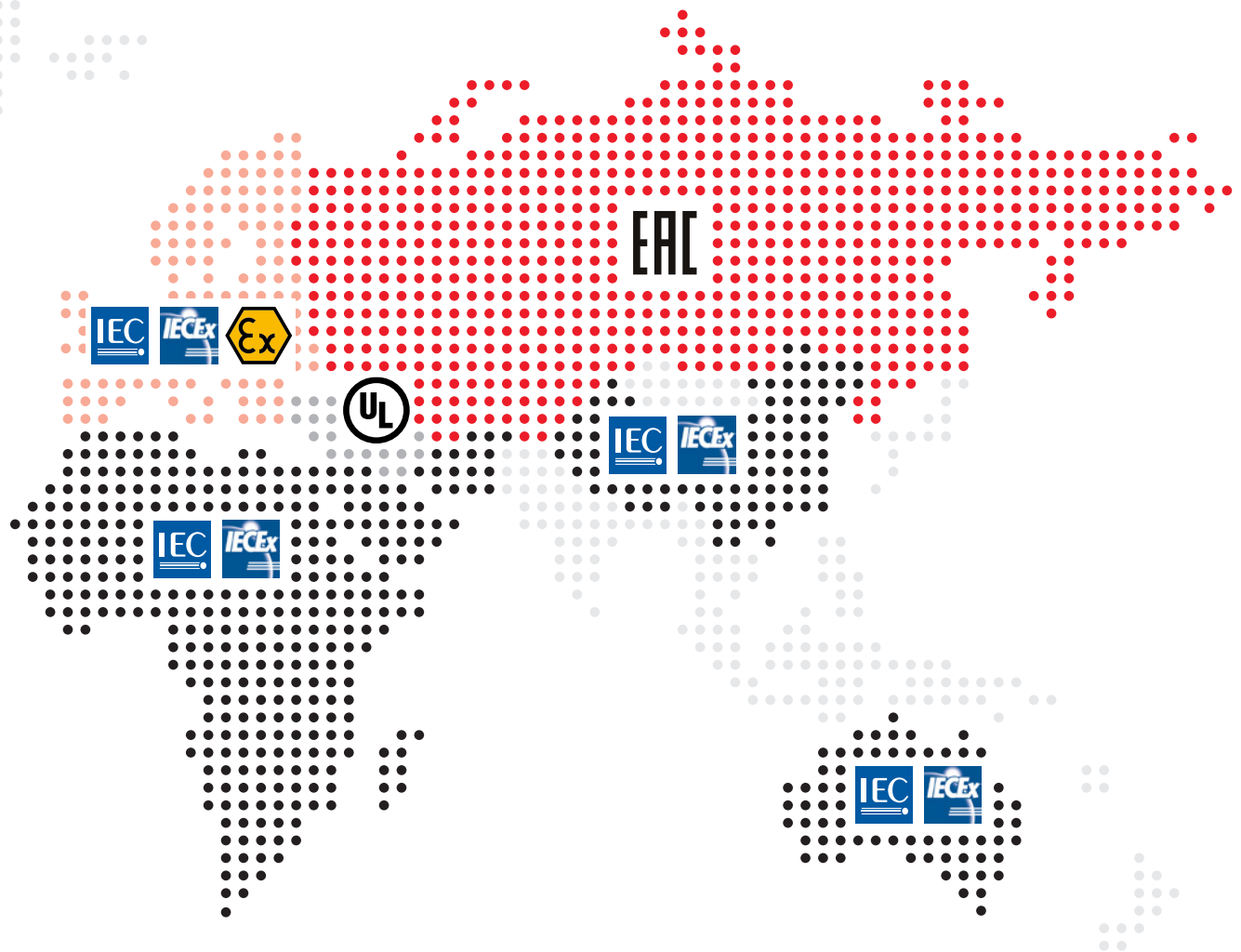
Russia (EAC and EAC Ex)

Rest of World
(Mixed and Local)



World standards

	Basic Electrical Code							
Region		Base Standard		Symbols		Hazardous Area Standards	Symbols	
Europe	IEC	IEC/EN 62444 - Cable Glands	CE			IEC/EN 60079-0 - General Requirements	EX	
		IEC/EN 61386 - Conduit Systems				IEC/EN 60079-1 - Flameproof Equipment		
		IEC/EN 60529 - Ingress Protection				IEC/EN 60079-7 - Increased Safety	IECEX	
						IEC/EN 60079-31 - Dust Enclosure		
US	NEC	UL514B - Fittings	UL			UL2225 -xxxx	UL	
		UL360 - Electrical Conduit			UL1203 - xxxx			
		UL1696 - Protective Tubing	UR					
Canada	CEC	CSA C22.2-18.3 - Fittings	CSA			CSA C22.2-25 -30 -174 -94	CSA	
		CSA C22.2-54-04 - Electrical Conduit				CSA C22.2/IEC 60079-0 - General Requirements		
		CSA C22.2-227.3 - Protective Tubing				CSA C22.2/IEC 60079-1 - Flameproof Equipment		
						CSA C22.2/IEC 60079-7 - Increased Safety		
						CSA C22.2/IEC 60079-31 - Dust Enclosure		



World standards

Region	Basic Electrical Code	Base Standard	Symbols	Hazardous Area Standards	Symbols
Russia	IEC	IEC/EN 62444 - Cable Glands	EAC	ГОСТ Р МЭК 60079-0 - General Requirements	EAC Ex
		IEC/EN 61386 - Conduit Systems		ГОСТ Р МЭК 60079-7 - Increased Safety	
		IEC/EN 60529 - Ingress Protection		ГОСТ Р МЭК 60079-31 - Dust Enclosure	
				ГОСТ IEC 60079-1 - Flameproof Equipment	
Brazil	IEC	ABNT NBR IEC 62444 - Cable Glands		ABNT NBR IEC 60079-0 - General Requirements	
		ABNT NBR IEC 61386 - Conduit Systems		ABNT NBR IEC 60079-1 - Flameproof Equipment	
		ABNT NBR IEC 60529 - Ingress Protection		ABNT NBR IEC 60079-7 - Increased Safety	
				ABNT NBR IEC 60079-31 - Dust Enclosure	
China	IEC	IEC/EN 62444 - Cable Glands		GB3836.1 - General Requirements	CNEX
		IEC/EN 61386 - Conduit Systems		GB3836.2 - Flameproof Equipment	
		IEC/EN 60529 - Ingress Protection		GB3836.3 - Increased Safety	PCEC
				GB12476.1 - Dust General Requirements	
				GB12476.5 - Dust Enclosure	

Index of ingress protection

IEC 60529 IP Rating and NEMA 250 Enclosures

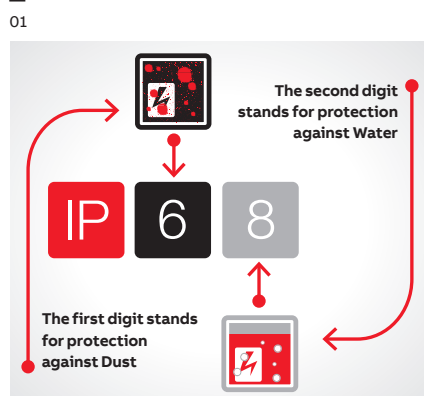
IP suitability ratings are a system for classifying the degree of protection provided by enclosures of electrical equipment.

Protection against solid bodies

Degree of protection for persons against access to hazardous parts inside the enclosure and/or against the ingress of solid foreign objects.

	0	No protection
	1	Objects greater than 50 mm, accidental touch by hands
	2	Objects greater than 12 mm, accidental touch by fingers
	3	Objects greater than 2.5 mm, e.g. tools/wires
	4	Objects greater than 1 mm, e.g. tools/wires/small wires
	5	Protected against dust - limited ingress (no harmful deposits)
	6	Totally protected against dust (Dust-tight)

01 IP Ratings
The higher the number, the greater the degree of protection; they apply ONLY to properly installed equipment.



Protection against Water

Degree of protection of equipment inside enclosures against damage from the ingress of water.

	0	No protection
	1	Protected against vertically falling drops of water
	2	Protected against direct sprays of water 15° from vertical
	3	Protected against sprays of water to 60° from vertical
	4	Protected against water sprayed from all directions - limited ingress permitted
	5	Protected against low pressure jets of water from all directions - limited ingress permitted
	6	Protected against strong pressure jets of water, heavy seas - limited ingress permitted
	7	Protection against the effects of immersion between 15cm - 1 m
	8	Protection against long periods of immersion under a quoted pressure, e.g. 2 bar at 24 hours
	9	IP69 Automotive standard DIN40050 and signifies resistance to high pressure jets of water (up to 80bar) from any angle

Conversion of NEMA enclosure type ratings to IEC 60529 enclosure Classification Designations (IP)
(Cannot be used to convert Classification Designations to NEMA type ratings)

IP 1st Character	1		2	3, 3X, 3S, 3SX		3R, 3RX	4, 4X		5	6	6P	12, 12K, 13	IP 2nd Character
IP0_													IP0_0
IP1_													IP0_1
IP2_													IP0_2
IP3_													IP0_3
IP4_													IP0_4
IP5_													IP0_5
IP6_													IP0_6
													IP0_7
													IP0_8
	A	B	A	B	A	B	A	B	A	B	A	B	

NEMA 250 to IEC 60529

NEMA	3		IP	5	4
NEMA	3S		IP	5	4
NEMA	4 & 4x	→	IP	5	6
NEMA	6 & 6P		IP	6	7
NEMA	13		IP	5	4

Standards, zone definitions & product markings

IEC - Groups and Zones System

Classifications of hazardous areas

Classifications of hazardous areas		Descriptions	ATEX		EPL	Equipment usage
			Group	Category		
Mining	Energized	Persistent risk of methane gas and other dusts	I	M1	Ma	
	De-energized		I	M2	Mb	
Gas environments	Zone 0	Persistent and continuous presence of gas for frequent or long periods	II	1G	Ga	ATEX Equipment Category 1G , Equipment Protection Level Ga
	Zone 1	Likely occurrence of gas presence in normal operation	II	2G	Gb	ATEX Equipment Category 2G or higher , Equipment Protection Level Gb or higher
	Zone 2	Unlikely occurrence of gas presence in normal operation, short term persistence if any	II	3G	Gc	ATEX Equipment Category 3G , Equipment Protection Level Gc or higher
Dust environments	Zone 20	Persistent and continuous presence of dust for frequent or long periods	II	1D	Da	ATEX Equipment Category 1D , Equipment Protection Level Da
	Zone 21	Likely occurrence of dust presence in normal operation	II	2D	Db	ATEX Equipment Category 2D or higher , Equipment Protection Level Db or higher
	Zone 22	Unlikely occurrence of dust presence in normal operation, short term persistence if any	II	3D	Dc	ATEX Equipment Category 3D or higher , Equipment Protection Level Dc or higher

Gas & dust groups

Group	Typical		Examples
Mining	I	Methane (Mining only)	
Gases	IIA	Propane	Ammonia, Methane Gasoline, Butane
	IIB	Ethylene	Town gas, Acrylonitril
	IIB+H2	Ethylene	Town gas, Acrylonitril
	IIC	Hydrogen, Acetylene	Carbon disulphide
Dust environments	IIIA	Combustible flyings	Wood shaving
	IIIB	Non-conductive dust	Saw dust, flour
	IIIC	Conductive dust	Metal dust

Temperature classification

Class*	Surface temperature
T1	450°C
T2	300°C
T3	200°C
T4	135°C
T5	100°C
T6	85°C

* Temperature classification is based on the maximum surface temperature of the equipment in normal use.

Protection concepts

Protection concepts	Primary	Type of protection	EN/IEC Standard	Sub concept	Gas zones	Dust zones
By enclosure	Ex d	Flameproof	60079-1	Ex db	1	–
				Ex dc	2	
	Ex t	Dust proof	60079-31	Ex ta	–	20
				Ex tb		21
				Ex tc		22
By exclusion	Ex p	Pressurization	60079-2	Ex pxb	1	21/22
				Ex pyb	1	
				Ex pzc	2	
	Ex m	Encapsulation	60079-18	Ex ma	0	20
				Ex mb	1	21
				Ex mc	2	22
	Ex o	Oil immersion	60079-6	Ex ob	1	–
	Ex q	Powder filling	60079-5	Ex qb	1	–
By equipment	Ex i	Intrinsically safe	60079-11	Ex ia	0	20
				Ex ib	1	21
				Ex ic	2	22
	Ex op	Optical radiation	60079-28	Ex op is	0/1/2	20/21/22
				Ex op pr	1/2	21/22
				Ex op sh	0/1/2	20/21/22
	Ex e	Increased safety	60079-7	Ex eb	1	–
				Ex ec	2	
	Ex n	Non sparking	60079-15	Ex nA	2	–
		Limited energy		Ex nL		
		Restricted breathing		Ex nR		
		Enclosed breathing		Ex nC		

Standards, zone definitions & product markings

Zone definitions – Onshore gases & vapor

Zone 0

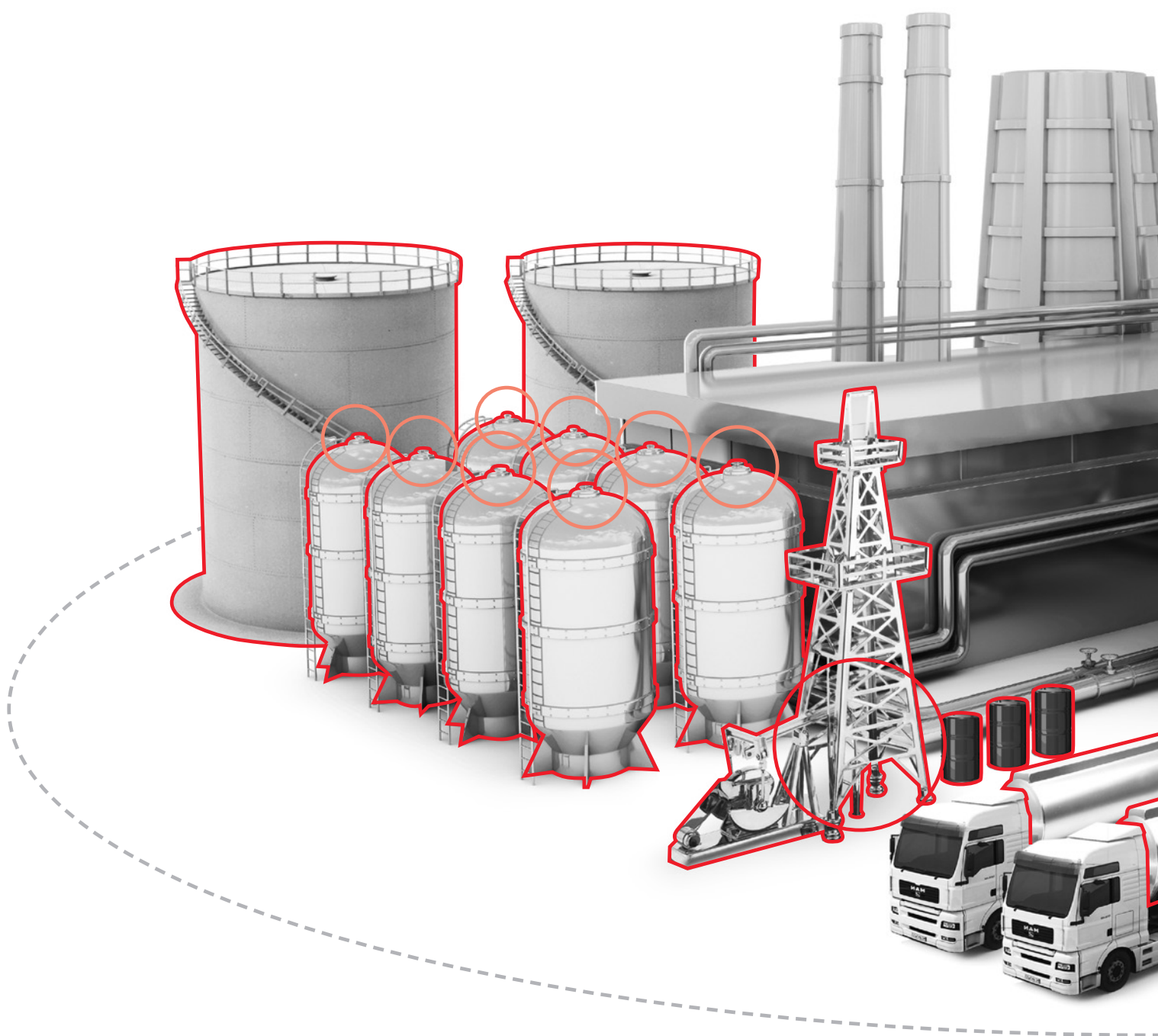
Permanent / Frequent

Place in which an explosive atmosphere consisting of a mixture with air of flammable substances in the form of gas, vapor or mist is present continuously or for long periods, or frequently.

Zone 1

Occasional

Site where an atmosphere consisting of a mixture of air and flammable substances in the form of gas, vapor or mist is likely to arise occasionally during normal operation.

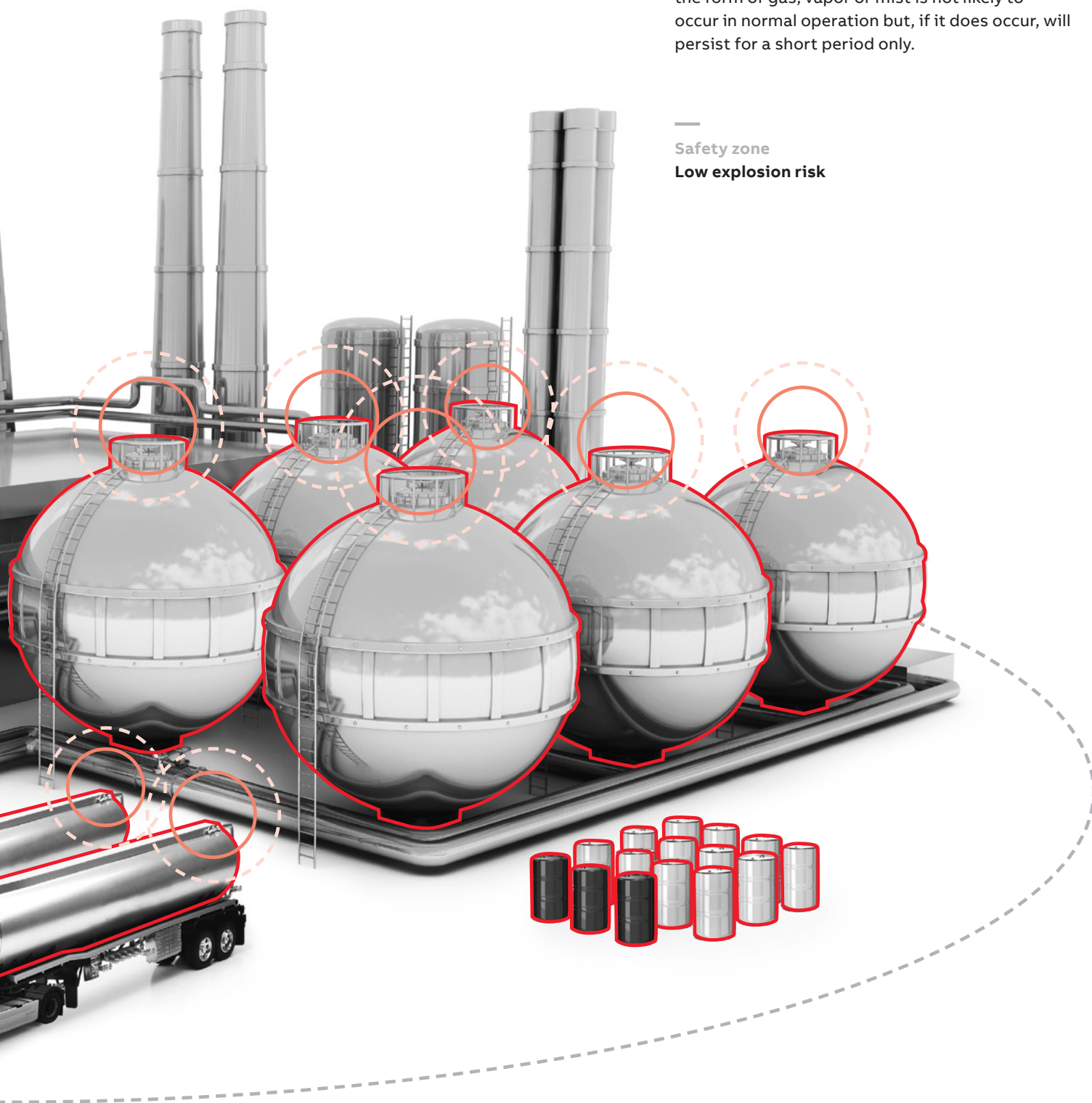


Zone 2**Gas irregular / Short duration**

Place in which an explosive atmosphere consisting of a mixture with air of flammable substances in the form of gas, vapor or mist is not likely to occur in normal operation but, if it does occur, will persist for a short period only.

Safety zone

Low explosion risk



Standards, zone definitions & product markings

Zone definitions – Offshore gases & vapor

Zone 0

Permanent / Frequent

Place in which an explosive atmosphere consisting of a mixture with air of flammable substances in the form of gas, vapor or mist is present continuously or for long periods, or frequently.

Zone 1

Occasional

Site where an atmosphere consisting of a mixture of air and flammable substances in the form of gas, vapour or mist is likely to arise occasionally during normal operation.

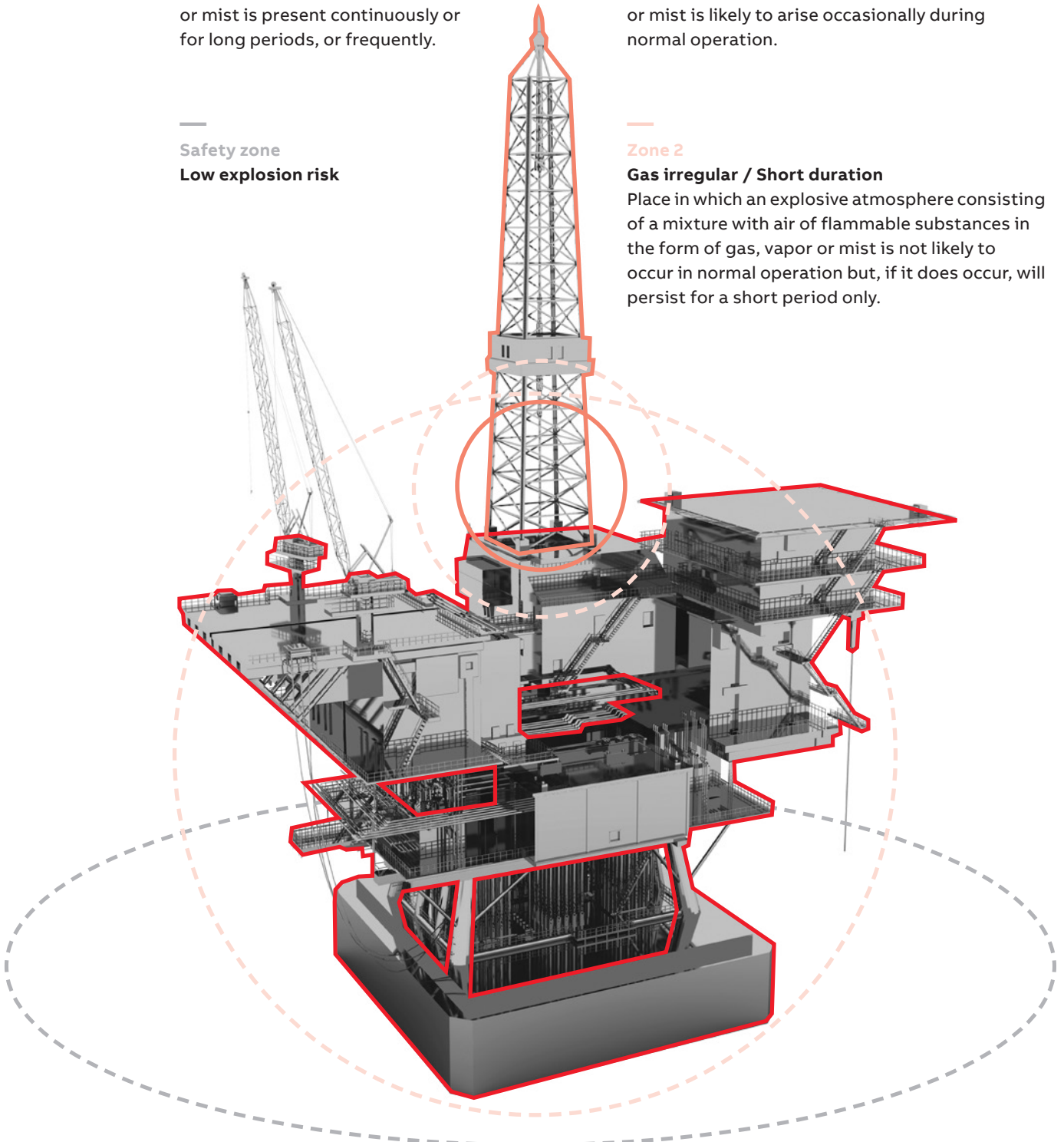
Safety zone

Low explosion risk

Zone 2

Gas irregular / Short duration

Place in which an explosive atmosphere consisting of a mixture with air of flammable substances in the form of gas, vapor or mist is not likely to occur in normal operation but, if it does occur, will persist for a short period only.



Standards, zone definitions & product markings

Zone definitions – Dust

Zone 20

Permanent / Frequent

Area in which an explosive atmosphere in the form of a cloud of combustible dust in air is present continuously, or for long periods, or frequently.

Zone 21

Occasional

Area in which an explosive atmosphere, in the form of a cloud of combustible dust in air is likely to occur, occasionally, in normal operation, occasionally.

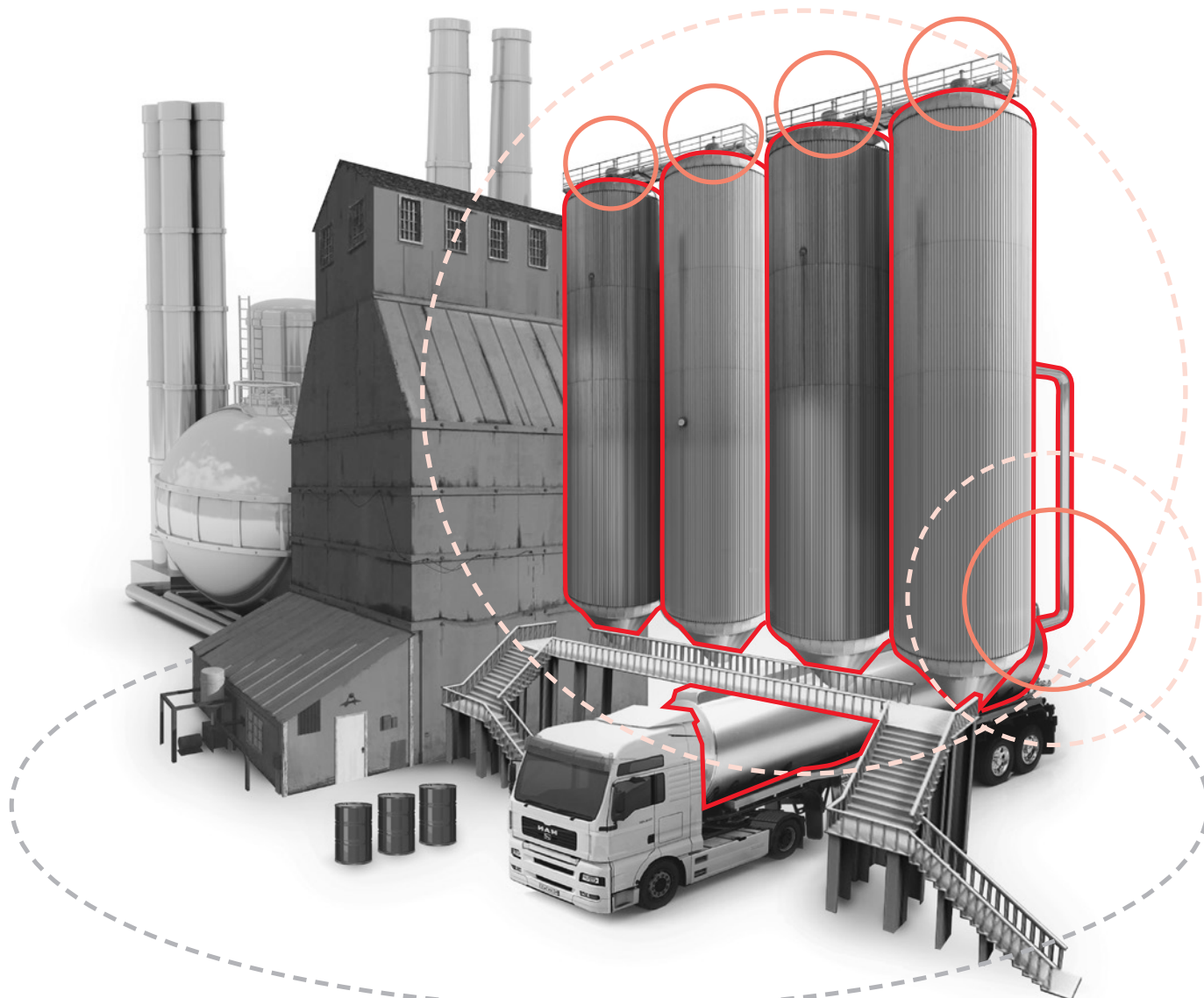
Zone 22

Dust Irregular / Short Duration

Area in which an explosive atmosphere, in the form of a cloud of combustible dust in air is not likely to occur in normal operation but, if it does occur, will persist for a short period only.

Safety Zone

No Explosion Risk



Standards, zone definitions & product markings

NEC - Class and Division System

Classifications of hazardous areas

Classifications of hazardous areas		Descriptions	Equipment Usage	Comparison
Mining		Not covered in the NEC. See MSHA, Specific requirements for Mining Equipment and Safety Standards.		
Gas environments	Division 1	1. Ignitable concentrations of gases can exist under normal operating conditions.	Class I Div 1	Zone 0 Zone 1
		2. Ignitable concentrations of gases may exist frequently because of repair, maintenance, leakage.		
	Division 2	3. Equipment breakdown or faulty operation that may create both an ignitable gas release and a source of ignition from electric equipment failure.	Class I Div 1 and Class I Div 2	Zone 2
		1. Gases are normally confined to within closed containers or closed systems requiring accidental rupture, breakdown or abnormal operation for escape.		
Dust environments	Division 1	2. Where ignitable concentrations of gases are normally prevented by positive pressure ventilation.	Class II Div 1	Zone 20 Zone 21
		3. Location adjacent to a Class I Division 1 location where ignitable concentrations of gases might occasionally be communicated.		
	Division 2	1. Combustible dust is in the air under normal operating conditions sufficient to product explosive or ignitable mixtures.	Class II Div 1 and Class II Div 2	Zone 22
		2. Mechanical failure or abnormal operation might simultaneously produce ignitable mixtures and an electrical source of ignition.		
Fibres and Flyings environments	Division 1	3. Group E combustible dusts may be present in sufficient quantities.	Class III Div 1	Zone 20 Zone 21
		1. Combustible dust due to abnormal operations may be present in the air in quantities sufficient to produce explosive or ignitable mixtures.		
	Division 2	2. Sufficient dust accumulations could become suspended in air by equipment malfunction.	Class III Div 1 and Class III Div 2	Zone 22
		3. Dust accumulations could be ignitable due to electrical equipment overheating, abnormal operation or failure.		

Standards, zone definitions & product markings

NEC - Class and Division System

Gas & dust groups

Group	Typical		Examples
Gases	A	Acetylene	Acetylene is the only gas in Group A
	B	Hydrogen	Acrolein, Butadiene, Ethylene Oxide, Formaldehyde (gas), Process Gas, Propyl Nitrate
	C	Ethylene	Acetaldehyde, Diethyl Ether, Hydrogen Sulphide
	D	Propane	Acrylonitrile, Ammonia, Butane, Fuel Oil 1, Gasoline, Heptane, Methane,
Dusts	E	Combustible metal dusts	Aluminium, Magnesium
	F	Combustible carbonaceous dusts that have more than 8% total entrapped volatiles	Coal, Carbon Black, Charcoal, Coke
	G	Combustible dusts not included in Group E or F	Flour, Grain, Wood (saw dust), Plastic, Chemicals
Fibers & Flyings	No Groups	Fibres/flyings ("big dust") not in suspension in ignitable quantities	Wood shaving, Rayon, Cotton

Protection Concepts	Techniques (Types)	ANSI (UL) /CSA Standards		Class I	Class II	Class III
By Enclosure	Explosion proof	ANSI / UL 1203	UL 60079-1	1 or 2		
	Dust Ignition proof	ANSI / UL 1203	UL 60079-31		1 or 2	
By Exclusion	Purged and Pressurized	ANSI/NFPA 496	UL 60079-2	1 or 2	1 or 2	1 or 2
By Equipment	Intrinsic Safety*	ANSI/UL 913	UL 60079-11	1 or 2	1 or 2	1 or 2
	Nonincendive (circuit, equipment, component)	ANSI / ISA-12.12.01	UL 60079-15	2	2	1 or 2
	Oil Immersion		UL 60079-6	2		
	Hermetically Sealed	ANSI / ISA-12.12.01	UL 60079-18	2	2	1 or 2
	Combustible Gas Detection System	ANSI/UL 2075; ANSI/ISA-60079-29-1	UL 60079-29	1 or 2		
	Increased Safety		UL 60079-7	1 or 2		



Thread data

Metric Thread Data
Standard thread conforming to EN60423 & BS3643

Thread Size	External Thread Outside Diameter (mm)	Internal Thread Inside Diameter (mm)	Pitch (mm)
M8	8	6.9	1
M10	10	8.9	1
M12	12	10.9	1
M12	12	10.4	1.5
M16	16	14.4	1.5
M18	18	16.9	1
M20	20	18.4	1.5
M25	25	23.4	1.5
M30	30	28.4	1.5
M32	32	30.4	1.5
M40	40	38.4	1.5
M50	50	48.4	1.5
M63	63	61.4	1.5
M75	75	73.4	1.5

NOTE: Dimensions are nominal

PF Thread Data
Japanese conduit thread conforming to JIS B 0202

Thread Size	External Thread Outside Diameter (mm)	Internal Thread Inside Diameter (mm)	Pitch (mm)
1/4"	13		1.34
3/8"	16.7	15.0	1.34
1/2"	21.0	18.6	1.81
3/4"	26.4	24.1	1.81
1"	33.3	30.3	2.31
1 1/4"	41.9	39.0	2.31
1 1/2"	47.8	44.8	2.31
2"	59.6	56.7	2.31

NOTE: Dimensions are nominal

NPT Thread Data
US Taper seal pipe thread conforming to ANSI/ASME B1.20.1 - 1983

Thread Size	External Thread Outside Diameter (mm)	Pitch (mm)
3/8"	16.7	
1/2"	21.0	1.81
3/4"	26.4	1.81
1"	33.3	2.21
1 1/4"	41.9	2.21
1 1/2"	47.8	2.21
2"	59.6	2.21

NOTE: Dimensions are nominal

PG Thread Data
German Standard Thread Conforming to DIN40430

Thread Size	External Thread Outside Diameter (mm)	Internal Thread Inside Diameter (mm)	Pitch (mm)
PG7	12.5	11.3	1.27
PG9	15.2	13.9	1.41
PG11	18.6	17.3	1.41
PG13,5	20.4	19.1	1.41
PG16	22.5	21.2	1.41
PG21	28.3	26.8	1.59
PG29	37	35.5	1.59
PG36	47	45.5	1.59
PG42	54	52.5	1.59
PG48	59.3	57.8	1.59

NOTE: Dimensions are nominal

UNEF / UNS Thread Data
American unified thread conforming to BS1580

Thread Size	External Thread Outside Diameter (mm)	Internal Thread Inside Diameter (mm)	Pitch (mm)
5/8"	15.9	14.7	1.06
3/4"	19.1	17.7	1.27
13/16"	20.6	19.3	1.27
7/8"	22.2	20.9	1.27
15/16"	23.8	22.4	1.27
1"	25.4	24.0	1.27
1 1/8"	28.6	27.0	1.41
1 3/16"	30.2	28.6	1.41
1 1/4"	31.8	30.2	1.41
1 5/16"	33.3	31.8	1.41
1 3/8"	34.9	33.4	1.41
1 7/16"	36.5	35.0	1.41
1 3/4"	44.5	42.9	1.41
2"	50.8	49.3	1.59
2 1/4"	57.2	55.4	1.59

NOTE: Dimensions are nominal

Conformity documents and compliance information

- Rohs Statements
- Reach Statements
- SVHC Statements
- Conflict Minerals declaration
- Certificates of conformity
- Declarations of Conformity

Can be provided on request please contact (details from back page)

Chemical resistance guide

This document serves as a guideline only and compatibility should be verified in the application environment to ensure suitability. Many factors can determine the exact suitability; such as temperature, duration of contact, nature of contact such as submersion and concentration of the chemicals involved.

Resistance guide																	
Chemicals	Metals							Plastics & Elastomers									
	Aluminum	Carbon Steel	Cast/Ductile Iron	Nickel Plated Brass	303/304 Stainless Steel	1.4301 (V2A)	316 Stainless Steel	1.4401 (V4A)	PA6 PA66 Polyamide	POM Polyacetal	PVC Polyvinylchloride	TPE-U/TPE-E Polyester	PP Polypropylene	EPR, EPDM	NBR Nitrile	CR Polychloroprene	TPU Polyurethane
3 = Excellent 2 = Good 1 = Fair to poor 0 = Not recommended - = No data																	
Acetate Solvents	2	0	0	3	0	3	3	3	3	3	0	0	0	2	0	0	0
Acetic Acid	2	0	0	3	0	2	0	0	3	0	2	3	1	1	1	1	1
Acetic Acid — 20%	2	0	0	3	2	3	0	1	3	0	2	3	1	2	-	-	-
Acetic Acid — 30%	0	-	3	3	3	3	0	2	-	0	2	3	1	2	-	-	-
Acetic Acid — 50%	0	-	3	3	3	2	0	2	-	1	2	3	0	1	-	-	-
Acetic Acid — 80%	2	0	0	3	0	2	0	0	-	1	3	3	0	1	-	-	-
Acetic Acid — Glacial	2	0	0	2	1	3	0	0	3	1	1	2	0	0	-	-	-
Acetone	2	3	3	3	3	3	2	2	0	1	0	3	0	0	0	0	0
Acetone Cyanohydrin	2	-	2	3	2	-	-	-	-	-	-	0	-	2	-	-	-
Acetonitrile (Methyl Cyanide)	3	3	3	3	3	3	3	3	0	-	0	3	0	0	0	2	2
Acetophenone	2	3	3	3	3	2	3	-	-	-	1	2	0	0	-	-	-
Acrylonitrile	2	3	3	3	3	3	2	-	3	0	2	0	0	0	0	0	0
Adipic Acid	2	3	2	3	2	2	3	2	3	0	2	3	3	0	-	-	-
Alcohol	3	3	3	3	3	3	0	2	3	2	2	2	-	-	-	-	-
Alcohol: Amyl	2	2	2	3	3	3	3	3	3	3	3	2	3	2	2	0	0
Alcohol: Benzyl	2	2	2	3	2	2	0	3	3	0	3	1	0	1	1	1	1
Alcohol: Butyl	2	2	2	3	3	3	0	3	3	0	2	3	3	3	3	0	0
Alcohol: Diacetone	2	3	2	3	3	3	3	3	2	0	2	2	0	0	0	2	2
Alcohol: Ethyl	2	2	2	3	3	3	2	3	3	3	3	3	3	3	3	0	0
Alcohol: Hexyl	3	3	3	3	3	3	3	3	3	0	3	1	3	2	0	0	0
Alcohol: Isobutyl	2	1	1	3	3	3	2	3	3	2	3	2	1	3	0	0	0
Alcohol: Isopropyl	2	3	1	3	2	2	0	3	3	3	3	2	1	2	0	0	0
Alcohol: Methyl	2	3	3	3	3	3	2	3	3	2	3	2	3	3	0	0	0
Alcohol: Octyl	3	3	3	3	3	3	3	3	3	0	-	3	2	2	0	0	0
Alcohol: Propyl	3	3	3	3	3	3	2	3	3	0	3	2	3	3	0	0	0
Aluminum Chloride	0	0	0	0	0	1	0	2	3	1	3	3	3	3	3	2	2
Ammonia 10%	3	3	3	3	3	3	3	0	3	-	3	3	-	3	-	-	-
Ammonia Anhydrous	3	3	3	3	3	3	2	0	3	0	3	3	-	2	-	-	-
Ammonia Liquids	0	-	3	3	3	-	-	0	0	-	3	3	2	3	2	3	2

Chemical resistance guide

Resistance guide															
Chemicals	Metals								Plastics & Elastomers						
3 = Excellent 2 = Good 1 = Fair to poor 0 = Not recommended - = No data	Aluminum	Carbon Steel	Cast/Ductile Iron	Nickel Plated Brass	303/304 Stainless Steel 1.4301 (V2A)	316 Stainless Steel 1.4401 (V4A)	PA6 PA66 Polyamide	POM Polyacetal	PVC Polyvinylchloride	TPE-U/TPE-E Polyester	PP Polypropylene	EPR, EPDM	NBR Nitrile	CR Polychloroprene	TPU Polyurethane
Ammonia Liquors	3	-	3	3	3	-	-	-	0	-	-	-	-	3	-
Aniline	1	1	1	3	3	2	1	2	2	0	1	0	0	0	0
ASTM no.1	3	-	3	3	3	-	-	3	3	3	-	0	3	2	2
ASTM no.2	3	-	3	3	3	-	-	3	2	3	-	0	3	2	0
ASTM no.3	3	-	3	3	3	-	-	3	-	3	-	0	3	1	0
ASTM no.4	3	-	3	3	3	-	-	3	-	0	-	0	2	0	0
ASTM no.5	3	-	3	3	3	-	-	-	-	3	-	0	3	2	0
ASTM no.6	3	-	3	3	3	-	-	-	-	3	-	0	0	0	0
ASTM no.7	3	-	3	3	3	-	-	-	-	3	-	0	2	0	0
Benzaldehyde	2	3	3	3	2	2	0	3	-	2	0	2	0	0	0
Benzene	2	3	2	3	2	2	3	3	2	1	0	0	0	0	0
Blood	-	-	-	3	3	3	-	-	3	-	3	-	-	-	-
Brake Fluid (Mineral)	3	3	3	3	3	3	2	3	0	0	0	3	1	2	3
Carbon Tetrachloride	0	0	0	3	2	2	0	2	0	0	0	0	1	0	3
Caustic	0	-	-	3	3	3	-	-	-	0	-	-	-	-	-
Chlorinated Water	0	-	-	3	2	2	0	0	0	0	1	0	1	1	0
Chlorine Water	0	-	-	3	1	1	1	0	0	-	0	1	-	0	-
Chloroform	0	2	0	3	3	3	0	2	0	0	0	0	0	0	0
Citric Acid	1	0	0	3	2	3	0	2	3	3	2	3	-	3	-
Copper Sulfate	-	-	-	3	3	3	1	3	3	2	3	3	-	3	-
Creosols	2	-	1	3	3	-	-	2	2	-	0	0	0	0	0
Cresols	2	1	1	3	3	3	0	0	3	0	0	0	-	0	-
Crude Oil	3	-	2	3	3	3	3	0	-	2	0	0	2	1	0
Diesel Fuel	3	3	3	3	3	3	3	3	2	2	2	0	-	0	-
Diethylamine	2	2	0	3	2	2	2	2	-	-	1	2	-	2	-
Dyes	2	-	2	3	3	3	3	1	-	-	-	-	-	1	-
Ethane	3	3	3	3	3	3	0	3		-	0	0	3	1	2
Ethanol (Ethyl Alcohol)	2	2	2	3	3	3	1	3		3	3	3	3	3	0
Ethanolamine	2	3	2	3	3	3	3	0	-	-	0	2	2	1	1
Ether	2	1	1	3	3	3	3	3		-	0	1	-	0	-
Ethyl Ether	1	1	1	2	2	2	2	2	0	-	0	0	0	0	0
Ethyl Formate	1	-	3	2	2	2	-	3	0	0	-	1	0	2	-
Ethylene Glycol	2	2	2	3	2	2	2	2	3	1	3	3	3	3	2
Freon 32	0	3	3	3	3	3	-	3		-	-	3	3	3	-
Gasoline	3	3	3	3	3	3	-	3	2	3	0	0	3	0	1
Gelatin	2	3	0	3	3	3	2	2		2	3	3	3	3	0
Glycol	2	-	2	2	2	2	1	2		-	3	3	-	3	-
Grapefruit Oil	-	0	0	3	3	3	-	-	3	-	-	-	3	0	-
Grease	3	3	3	3	3	3	-	0	3	-	-	0	-	0	-
Heavy Water	3	-	1	2	3	-	-	-		2	-	3	3	-	0
Hexane	3	3	3	3	3	3	2	1	2	3	1	0	3	0	2
Hexanol	3	-	3	3	3	-	-	3	-	0	3	3	3	2	0
Hexanol Tertiary	3	3	3	3	3	3	3	3	-	-	2	-	-	-	-
Hexyl Alcohol	3	-	-	2	3	-	-	-	-	-	3	-	-	2	-
Hexyl Alcohol	3	-	3	2	3	-	-	-		0	-	1	2	2	0
Hexylene Glycol (Brake Fluid)	3	-	3	2	3	-	-	-	-	0	-	1	3	3	-
Hydraulic Oil (Petro)	3	3	3	3	3	3	3	2		-	0	0	-	3	-
Hydraulic Oil (Petroleum Base)	3	3	3	3	3	3	3	1		3	0	0	-	2	-
Hydraulic Oil (Petroleum)	3	-	3	3	3	3	3	2		3	0	0	3	2	-
Hydraulic Oil (Synthetic)	3	3	3	3	3	3	3	2		3	0	0	0	0	2

Chemical resistance guide

Resistance guide															
Chemicals	Metals								Plastics & Elastomers						
3 = Excellent 2 = Good 1 = Fair to poor 0 = Not recommended - = No data	Aluminum	Carbon Steel	Cast/Ductile Iron	Nickel Plated Brass	303/304 Stainless Steel 1.4301 (V2A)	316 Stainless Steel 1.4401 (V4A)	PA6 PA66 Polyamide	POM Polyacetal	PVC Polyvinylchloride	TPE-U/TPE-E Polyester	PP Polypropylene	EPR, EPDM	NBR Nitrile	CR Polychloroprene	TPU Polyurethane
Hydrazine	2	0	0	3	3	3	-	2	-	0	0	3	2	1	0
Hydrochloric Acid - 10%	0	0	0	3	0	0	0	0	3	0	3	3	-	0	-
Hydrochloric Acid - 37%	0	0	0	3	0	0	0	0	3	0	1	1	2	0	0
Hydrogen Peroxide - 30%	3	2	0	3	2	2	0	0	3	0	2	2	-	0	-
Hydrogen Peroxide - 90%	3	-	0	2	3	-	0	0	3	0	3	1	-	0	-
Isopropyl Alcohol	3	3	3	3	3	3	0	3	-	3	3	2	3	2	0
Isopropyl Amine	-	-	3	3	3	-	-	-	-	-	-	-	0	-	-
Isopropyl Chloride	0	-	3	3	3	3	-	3	-	-	0	0	0	0	0
Isopropyl Ether	2	3	3	3	3	3	3	0	-	-	0	0	2	0	2
Jet Fuel (JP1 to JP6)	3	3	3	3	3	3	1	3	-	-	0	0	-	0	-
Kerosene	3	3	3	3	3	3	3	3	3	1	0	0	3	0	2
Ketchup	-	-	-	3	3	3	3	3	3	-	-	3	-	3	-
Ketones	2	3	3	3	3	3	3	0	0	0	0	3	0	0	0
Lacquers	3	1	1	2	3	3	3	0	0	0	0	0	0	0	0
Lactic Acid	0	0	0	3	2	2	0	1	-	0	2	3	-	1	-
Lactic Acid - 5% Solution	1	-	0	3	3	-	-	3	-	0	3	3	3	3	2
Lard	3	3	3	3	2	3	3	2	-	2	2	0	-	0	-
Lard Oil (Cold)	3	3	3	3	3	3	-	3	-	-	-	0	-	2	-
Lard Oil (Hot)	3	3	3	3	3	3	-	3	-	2	2	0	3	2	1
Latex	3	-	-	3	3	3	3	1	-	-	3	3	3	2	0
Lubricants	3	3	3	3	3	3	3	3	3	3	2	0	-	0	-
Lubricants (Petroleum)	1	-	3	3	3	3	3	3	3	3	0	0	3	2	2
Lubricating Oil	3	3	3	3	3	3	3	3	3	3	3	0	-	2	-
Methanol	2	3	3	3	3	3	2	3		2	3	3	3	3	0
Methyl Acetate	2	2	2	2	3	2	3	2	0	1	0	1	0	0	0
Methyl Acetone	3	3	3	2	3	3	3	0		-	0	3	1	0	-
Methyl Bromide	0	3	3	3	3	3	0	0	0	0	0	0	2	0	0
Methyl Ethyl Ketone (MEK)	2	3	3	3	3	3	1	1	0	2	0	3	0	0	0
Methyl Formate	3	-	2	2	2	2	-	3	-	-	-	1	0	2	0
Nitric Acid - 10%	0	0	0	1	3	3	0	0	3	0	0	2	-	2	-
Nitric Acid - 70%	3	-	0	1	3	3	0	0	0	0	0	0	-	0	-
Olive Oil	3	3	3	3	2	3	3	3		-	3	0	3	0	3
Ozone	2	0	1	3	2	2	0	0		1	0	3	0	1	3
Paint Thinner, Duco	0	2	2	3	2	3	3	3	0	-	0	0	0	0	0
Paraffin	3	3	3	3	3	3	3	3	3	-	3	0	3	2	3
Petroleum	0	-	1	3	3	3	3	2	2	2	2	0	-	2	-
Petroleum Ether	2	-	2	3	3	3	3	3	2	-	3	0	3	0	2
Phenol	2	-	0	3	3	-	-	3	2	0	1	-	0	0	0
Phenol (10%)	3	0	0	3	2	2	0	2	2	-	2	2	-	0	-
Phosphoric Acid - 10%	0	-	0	3	3	-	0	-	3	-	3	3	-	2	-
Phosphoric Acid - 20%	0	-	0	3	3	2	0	0	3	-	3	3	2	2	1
Salt Brine	1	0	0	1	2	0	3	2	2	3	3	3	-	3	-
Salt Water	0	0	0	1	1	2	3	3	2	3	3	3	3	2	0
Sea Water	0	0	0	1	1	1	3	3	3	3	3	3	3	2	3
Sea Water (Brine)	3	-	1	1	3	-	3	3	3	-	3	3	-	2	-
Sewage	0	0	0	2	3	3	-	3		2	3	1	3	2	0
Silicone	2	3	3	3	3	3	3	3		3	3	3	-	3	-
Silicone Grease	-	-	-	3	-	-	-	3		3	-	3	3	3	3
Silicone Oil	2	3	2	3	3	3	3	3		2	3	3	3	0	3
Silver Nitrate	0	1	0	3	2	2	3	3		0	2	3	2	3	3

Chemical resistance guide

Resistance guide															
Chemicals	Metals								Plastics & Elastomers						
3 = Excellent 2 = Good 1 = Fair to poor 0 = Not recommended - = No data	Aluminum	Carbon Steel	Cast/Ductile Iron	Nickel Plated Brass	303/304 Stainless Steel 1.4301 (V2A)	316 Stainless Steel 1.4401 (V4A)	PA6 PA66 Polyamide	POM Polyacetal	PVC Polyvinylchloride	TPE-U/TPE-E Polyester	PP Polypropylene	EPR, EPDM	NBR Nitrile	CR Polychloroprene	TPU Polyurethane
Skydol 7000	-	-	-	3	3	-	-	3		0	-	3	0	0	0
Skydrol	-	-	-	3	-	-	1	-		2	-	3	-	0	-
Skydrol 500	-	-	-	3	3	-	1	3		1	-	3	0	0	0
Skydrol Hydraulic Fluid	-	-	-	3	3	-	1	-		-	-	3	-	0	-
Sodium Chloride	1	0	0	1	1	1	3	2		3	3	3	3	3	3
Sodium Hydroxide	0	-	2	3	3	-	1	0	2	-	3	3	-	2	-
Sodium Hydroxide (< 10%) (Caustic Soda)	-	-	-	3	-	-	-	-	3	-	-	-	-	-	-
Sodium Hydroxide (< 50%) (Caustic Soda)	-	-	-	3	-	-	-	-	3	-	-	-	-	-	-
Sodium Hydroxide (20%)	0	3	2	3	2	2	3	3	3	2	3	2	3	2	2
Sodium Hydroxide (50%)	0	0	0	3	2	2	3	3	3	1	3	2	0	1	2
Sulfur Dioxide	0	-	0	0	0	3	1	0	0	0	3	2	0	2	1
Sulfur Dioxide (dry)	2	3	3	0	0	3	2	2	3	1	3	3	-	0	-
Sulfur Dioxide Gas Dry	0	-	2	0	3	3	2	2	3	0	1	3	-	0	-
Sulfuric Acid - Concentrated	-	-	-	0	-	-	0	0	0	0	2	0	-	0	-
Sulfuric Acid (<10%)	0	1	0	0	0	1	1	0	2	3	3	3	0	0	0
Sulfuric Acid (10-75%)	0	0	0	0	0	0	0	0	1	-	3	2	-	0	-
Sulfuric Acid (75-100%)	0	0	0	0	1	0	0	-	0	1	1	2	-	0	-
Sulfuric Acid (hot concentrated)	0	0	0	0	0	1	0	-	0	-	0	0	-	0	-
Syrup	3	-	-	3	3	3	-	3	3	-	3	3	3	2	-
Toluene	3	-	3	3	-	3	3	-	0	-	0	-	-	0	-
Transformer Oil	3	-	2	3	3	3	3	1	-	-	0	0	3	1	3
Trichlorethylene	0	-	1	3	-	3	3	-	0	-	2	-	-	0	-
Turbine Oil	3	3	3	3	3	3	3	3	-	-	2	0	2	0	3
Turpentine	3	-	2	3	3	3	2	3	2	2	0	0	3	0	0
Unleaded Gasoline	3	-	3	3	-	3	3	-	-	-	0	-	-	0	-
Urea	2	-	2	2	2	2	1	3	3	2	3	3	2	2	2
Urine	2	3	2	3	3	3	2	1	-	-	3	3	3	0	-
Vegetable Oil	2	2	2	3	3	3	3	3	-	-	0	0	3	0	3
Vinyl Acetate	2	2	1	3	2	2	-	-	0	-	0	2	0	0	0
Water	3	0	0	3	3	3	-	3	3	3	2	3	-	3	-
White Spirit	-	-	-	3	-	3	3	3		3	3	-	-	-	-
Zinc Chloride	0	0	0	3	0	0	1	0	3	2	3	3	3	2	3

Index & useful information

Order code classification

Part No.	GID Code	Page No.
NPG-0381B	7TCA303070R0015	12
NPG-0381G	7TCA303070R0020	12
NPG-0381LG	7TCA303070R0025	12
NPG-0501B	7TCA303070R0016	12
NPG-0501G	7TCA303070R0021	12
NPG-0501LG	7TCA303070R0026	12
NPG-0502B	7TCA303070R0017	12
NPG-0502G	7TCA303070R0022	12
NPG-0502LG	7TCA303070R0027	12
NPG-0751B	7TCA303070R0018	12
NPG-0751G	7TCA303070R0023	12
NPG-0751LG	7TCA303070R0028	12
NPG-1001B	7TCA303070R0019	12
NPG-1001G	7TCA303070R0024	12
NPG-1001LG	7TCA303070R0029	12
NPG-M161B	7TCA303070R0000	12
NPG-M161G	7TCA303070R0005	12
NPG-M161LG	7TCA303070R0010	12
NPG-M201B	7TCA303070R0001	12
NPG-M201G	7TCA303070R0006	12
NPG-M201LG	7TCA303070R0011	12
NPG-M202B	7TCA303070R0002	12
NPG-M202G	7TCA303070R0007	12
NPG-M202LG	7TCA303070R0012	12
NPG-M251B	7TCA303070R0003	12
NPG-M251G	7TCA303070R0008	12
NPG-M251LG	7TCA303070R0013	12
NPG-M321B	7TCA303070R0004	12
NPG-M321G	7TCA303070R0009	12
NPG-M321LG	7TCA303070R0014	12
NCG-M121B	7TCA303070R0034	13
NCG-M121G	7TCA303070R0155	13
NCG-M121LG	7TCA303070R0030	13
NCG-M122B	7TCA303070R0035	13
NCG-M122G	7TCA303070R0156	13
NCG-M122LG	7TCA303070R0078	13
NCG-M161B	7TCA303070R0036	13
NCG-M161B-L	7TCA303070R0037	13
NCG-M161G	7TCA303070R0157	13
NCG-M161G-L	7TCA303070R0158	13
NCG-M161LG	7TCA303070R0079	13
NCG-M161LG-L	7TCA303070R0080	13
NCG-M162B	7TCA303070R0038	13
NCG-M162B-L	7TCA303070R0039	13
NCG-M162G	7TCA303070R0159	13
NCG-M162G-L	7TCA303070R0160	13
NCG-M162LG	7TCA303070R0081	13
NCG-M162LG-L	7TCA303070R0082	13
NCG-M163B	7TCA303070R0040	13

Part No.	GID Code	Page No.
NCG-M163B-L	7TCA303070R0041	13
NCG-M163G	7TCA303070R0161	13
NCG-M163G-L	7TCA303070R0162	13
NCG-M163LG	7TCA303070R0083	13
NCG-M163LG-L	7TCA303070R0084	13
NCG-M201B	7TCA303070R0042	13
NCG-M201B-L	7TCA303070R0043	13
NCG-M201G	7TCA303070R0163	13
NCG-M201G-L	7TCA303070R0164	13
NCG-M201LG	7TCA303070R0085	13
NCG-M201LG-L	7TCA303070R0086	13
NCG-M202B	7TCA303070R0044	14
NCG-M202B-L	7TCA303070R0045	14
NCG-M202G	7TCA303070R0165	14
NCG-M202G-L	7TCA303070R0166	14
NCG-M202LG	7TCA303070R0087	14
NCG-M202LG-L	7TCA303070R0088	14
NCG-M203B	7TCA303070R0046	14
NCG-M203B-L	7TCA303070R0047	14
NCG-M203G	7TCA303070R0167	14
NCG-M203G-L	7TCA303070R0168	14
NCG-M203LG	7TCA303070R0089	14
NCG-M203LG-L	7TCA303070R0090	14
NCG-M251B	7TCA303070R0048	14
NCG-M251B-L	7TCA303070R0049	14
NCG-M251G	7TCA303070R0169	14
NCG-M251G-L	7TCA303070R0170	14
NCG-M251LG	7TCA303070R0091	14
NCG-M251LG-L	7TCA303070R0092	14
NCG-M252B	7TCA303070R0050	14
NCG-M252B-L	7TCA303070R0051	14
NCG-M252G	7TCA303070R0171	14
NCG-M252G-L	7TCA303070R0172	14
NCG-M252LG	7TCA303070R0093	14
NCG-M252LG-L	7TCA303070R0094	14
NCG-M253B	7TCA303070R0052	14
NCG-M253B-L	7TCA303070R0102	14
NCG-M253G	7TCA303070R0173	14
NCG-M253G-L	7TCA303070R0174	14
NCG-M253LG	7TCA303070R0095	14
NCG-M253LG-L	7TCA303070R0096	14
NCG-M321B	7TCA303070R0033	14
NCG-M321B-L	7TCA303070R0103	14
NCG-M321G	7TCA303070R0175	14
NCG-M321G-L	7TCA303070R0176	14
NCG-M321LG	7TCA303070R0097	14
NCG-M321LG-L	7TCA303070R0098	14
NCG-M322B	7TCA303070R0104	14
NCG-M322B-L	7TCA303070R0105	14

Part No.	GID Code	Page No.
NCG-M322G	7TCA303070R0177	14
NCG-M322G-L	7TCA303070R0178	14
NCG-M322LG	7TCA303070R0099	14
NCG-M322LG-L	7TCA303070R0100	14
NCG-M323B	7TCA303070R0106	14
NCG-M323G	7TCA303070R0179	14
NCG-M323LG	7TCA303070R0101	14
NCG-M401B	7TCA303070R0108	14
NCG-M401B-L	7TCA303070R0110	14
NCG-M401G	7TCA303070R0180	14
NCG-M401G-L	7TCA303070R0181	14
NCG-M401LG	7TCA303070R0119	14
NCG-M401LG-L	7TCA303070R0120	14
NCG-M402B	7TCA303070R0111	14
NCG-M402B-L	7TCA303070R0113	14
NCG-M402G	7TCA303070R0182	14
NCG-M402G-L	7TCA303070R0183	14
NCG-M402LG	7TCA303070R0121	14
NCG-M402LG-L	7TCA303070R0122	14
NCG-M403B	7TCA303070R0114	14
NCG-M403G	7TCA303070R0184	14
NCG-M403LG	7TCA303070R0123	14
NCG-M501B	7TCA303070R0115	14
NCG-M501G	7TCA303070R0185	14
NCG-M501LG	7TCA303070R0124	14
NCG-M502B	7TCA303070R0116	14
NCG-M502G	7TCA303070R0186	14
NCG-M502LG	7TCA303070R0125	14
NCG-M631B	7TCA303070R0117	14
NCG-M631G	7TCA303070R0187	14
NCG-M631LG	7TCA303070R0126	14
NCG-M632B	7TCA303070R0118	14
NCG-M632G	7TCA303070R0188	14
NCG-M632LG	7TCA303070R0127	14
NCG-M751B	7TCA303070R0032	14
NCG-M751G	7TCA303070R0189	14
NCG-M751LG	7TCA303070R0128	14
NCG-0381B	7TCA303070R0053	15
NCG-0381G	7TCA303070R0190	15
NCG-0381LG	7TCA303070R0129	15
NCG-0382B	7TCA303070R0054	15
NCG-0382G	7TCA303070R0191	15
NCG-0382LG	7TCA303070R0130	15
NCG-0501B	7TCA303070R0055	15
NCG-0501G	7TCA303070R0192	15
NCG-0501LG	7TCA303070R0131	15
NCG-0502B	7TCA303070R0056	15
NCG-0502G	7TCA303070R0193	15
NCG-0502LG	7TCA303070R0132	15

Index & useful information

Order code classification

Part No.	GID Code	Page No.
NCG-0503B	7TCA303070R0057	15
NCG-0503G	7TCA303070R0194	15
NCG-0503LG	7TCA303070R0133	15
NCG-0504B	7TCA303070R0058	15
NCG-0504G	7TCA303070R0195	15
NCG-0504LG	7TCA303070R0134	15
NCG-0505B	7TCA303070R0059	15
NCG-0505G	7TCA303070R0196	15
NCG-0505LG	7TCA303070R0135	15
NCG-0751B	7TCA303070R0031	15
NCG-0751G	7TCA303070R0197	15
NCG-0751LG	7TCA303070R0136	15
NCG-0752B	7TCA303070R0060	15
NCG-0752G	7TCA303070R0198	15
NCG-0752LG	7TCA303070R0137	15
NCG-1001B	7TCA303070R0061	15
NCG-1001G	7TCA303070R0199	15
NCG-1001LG	7TCA303070R0138	15
NCG-1002B	7TCA303070R0062	15
NCG-1002G	7TCA303070R0200	15
NCG-1002LG	7TCA303070R0139	15
NCG-PG111B	7TCA303070R0065	15
NCG-PG111G	7TCA303070R0203	15
NCG-PG111LG	7TCA303070R0142	15
NCG-PG112B	7TCA303070R0213	15
NCG-PG112G	7TCA303070R0215	15
NCG-PG112LG	7TCA303070R0214	15
NCG-PG131B	7TCA303070R0066	15
NCG-PG131G	7TCA303070R0204	15
NCG-PG131LG	7TCA303070R0143	15
NCG-PG161B	7TCA303070R0067	15
NCG-PG161G	7TCA303070R0205	15
NCG-PG161LG	7TCA303070R0144	15
NCG-PG211B	7TCA303070R0068	15
NCG-PG211G	7TCA303070R0206	15
NCG-PG211LG	7TCA303070R0145	15
NCG-PG291B	7TCA303070R0069	15
NCG-PG291G	7TCA303070R0207	15
NCG-PG291LG	7TCA303070R0146	15
NCG-PG361B	7TCA303070R0070	15
NCG-PG361G	7TCA303070R0208	15
NCG-PG361LG	7TCA303070R0147	15
NCG-PG421B	7TCA303070R0071	15
NCG-PG421G	7TCA303070R0209	15
NCG-PG421LG	7TCA303070R0148	15
NCG-PG481B	7TCA303070R0072	15
NCG-PG481G	7TCA303070R0210	15
NCG-PG481LG	7TCA303070R0149	15
NCG-PG71B	7TCA303070R0063	15

Part No.	GID Code	Page No.
NCG-PG71G	7TCA303070R0201	15
NCG-PG71LG	7TCA303070R0140	15
NCG-PG91B	7TCA303070R0064	15
NCG-PG91G	7TCA303070R0202	15
NCG-PG91LG	7TCA303070R0141	15
NCG-G0251B	7TCA303070R0073	16
NCG-G0251G	7TCA303070R0211	16
NCG-G0251LG	7TCA303070R0150	16
NCG-G0381B	7TCA303070R0074	16
NCG-G0381G	7TCA303070R0212	16
NCG-G0381LG	7TCA303070R0151	16
NCG-G0501B	7TCA303070R0075	16
NCG-G0501G	7TCA303070R0112	16
NCG-G0501LG	7TCA303070R0152	16
NCG-G0502B	7TCA303070R0308	16
NCG-G0502G	7TCA303070R0307	16
NCG-G0502LG	7TCA303070R0306	16
NCG-G0751B	7TCA303070R0076	16
NCG-G0751G	7TCA303070R0109	16
NCG-G0751LG	7TCA303070R0153	16
NCG-G1001B	7TCA303070R0077	16
NCG-G1001G	7TCA303070R0107	16
NCG-G1001LG	7TCA303070R0154	16
NCGS-M121B	7TCA303070R0216	17
NCGS-M121B-L	7TCA303070R0224	17
NCGS-M121G	7TCA303070R0245	17
NCGS-M121G-L	7TCA303070R0253	17
NCGS-M121LG	7TCA303070R0274	17
NCGS-M121LG-L	7TCA303070R0282	17
NCGS-M122B	7TCA303070R0217	17
NCGS-M122B-L	7TCA303070R0225	17
NCGS-M122G	7TCA303070R0246	17
NCGS-M122G-L	7TCA303070R0254	17
NCGS-M122LG	7TCA303070R0275	17
NCGS-M122LG-L	7TCA303070R0283	17
NCGS-M161B	7TCA303070R0218	17
NCGS-M161B-L	7TCA303070R0226	17
NCGS-M161G	7TCA303070R0247	17
NCGS-M161G-L	7TCA303070R0255	17
NCGS-M161LG	7TCA303070R0276	17
NCGS-M161LG-L	7TCA303070R0284	17
NCGS-M162B	7TCA303070R0219	17
NCGS-M162B-L	7TCA303070R0227	17
NCGS-M162G	7TCA303070R0248	17
NCGS-M162G-L	7TCA303070R0256	17
NCGS-M162LG	7TCA303070R0277	17
NCGS-M162LG-L	7TCA303070R0285	17
NCGS-M201B	7TCA303070R0220	17
NCGS-M201B-L	7TCA303070R0228	17

Part No.	GID Code	Page No.
NCGS-M201G	7TCA303070R0249	17
NCGS-M201G-L	7TCA303070R0257	17
NCGS-M201LG	7TCA303070R0278	17
NCGS-M201LG-L	7TCA303070R0286	17
NCGS-0381B	7TCA303070R0232	18
NCGS-0381G	7TCA303070R0261	18
NCGS-0381LG	7TCA303070R0290	18
NCGS-0382B	7TCA303070R0233	18
NCGS-0382G	7TCA303070R0262	18
NCGS-0382LG	7TCA303070R0291	18
NCGS-0501B	7TCA303070R0234	18
NCGS-0501G	7TCA303070R0263	18
NCGS-0501LG	7TCA303070R0292	18
NCGS-0502B	7TCA303070R0235	18
NCGS-0502G	7TCA303070R0264	18
NCGS-0502LG	7TCA303070R0293	18
NCGS-0503B	7TCA303070R0236	18
NCGS-0503G	7TCA303070R0265	18
NCGS-0503LG	7TCA303070R0294	18
NCGS-0751B	7TCA303070R0237	18
NCGS-0751G	7TCA303070R0266	18
NCGS-0751LG	7TCA303070R0295	18
NCGS-0752B	7TCA303070R0238	18
NCGS-0752G	7TCA303070R0267	18
NCGS-0752LG	7TCA303070R0296	18
NCGS-M202B	7TCA303070R0221	18
NCGS-M202B-L	7TCA303070R0229	18
NCGS-M202G	7TCA303070R0250	18
NCGS-M202G-L	7TCA303070R0258	18
NCGS-M202LG	7TCA303070R0279	18
NCGS-M202LG-L	7TCA303070R0287	18
NCGS-M203B	7TCA303070R0222	18
NCGS-M203B-L	7TCA303070R0230	18
NCGS-M203G	7TCA303070R0251	18
NCGS-M203G-L	7TCA303070R0259	18
NCGS-M203LG	7TCA303070R0280	18
NCGS-M203LG-L	7TCA303070R0288	18
NCGS-M251B	7TCA303070R0223	18
NCGS-M251B-L	7TCA303070R0231	18
NCGS-M251G	7TCA303070R0252	18
NCGS-M251G-L	7TCA303070R0260	18
NCGS-M251LG	7TCA303070R0281	18
NCGS-M251LG-L	7TCA303070R0289	18
NCGS-M252B	7TCA303070R0305	18
NCGS-M252G	7TCA303070R0304	18
NCGS-M252LG	7TCA303070R0303	18
NCGS-PG112B	7TCA303070R0241	19
NCGS-PG112G	7TCA303070R0270	19
NCGS-PG112LG	7TCA303070R0299	19

Index & useful information

Order code classification

Part No.	GID Code	Page No.
NCGS-PG131B	7TCA303070R0242	19
NCGS-PG131G	7TCA303070R0271	19
NCGS-PG131LG	7TCA303070R0300	19
NCGS-PG161B	7TCA303070R0243	19
NCGS-PG161G	7TCA303070R0272	19
NCGS-PG161LG	7TCA303070R0301	19
NCGS-PG211B	7TCA303070R0244	19
NCGS-PG211G	7TCA303070R0273	19
NCGS-PG211LG	7TCA303070R0302	19
NCGS-PG71B	7TCA303070R0239	19
NCGS-PG71G	7TCA303070R0268	19
NCGS-PG71LG	7TCA303070R0297	19
NCGS-PG91B	7TCA303070R0240	19
NCGS-PG91G	7TCA303070R0269	19
NCGS-PG91LG	7TCA303070R0298	19
2920NM	7TAD105200R0000	20
2921NM	7TAD105200R0001	20
2922NM	7TAD105200R0002	20
2930NM	7TAD105210R0000	20
2931NM	7TAD105210R0001	20
2932NM	7TAD105200R0003	20
2940NM	7TAD105210R0002	20
2941NM	7TAD105210R0003	20
2942NM	7TAD105200R0004	20
4960NM	7TAD105200R0005	21
4961NM	7TAD105200R0006	21
4970NM	7TAD105220R0017	21
4971NM	7TAD105210R0004	21
4972NM	7TAD105210R0005	21
2671	7TAD105040R0000	22
2672	7TAD105030R0000	22
2673	7TAD105030R0001	22
2674	7TAD105030R0002	22
2675	7TAD105030R0003	22
2676	7TAD105040R0001	22
2690	7TAD105030R0007	22
2691	7TAD105040R0008	22
2692	7TAD105040R0009	22
2693	7TAD105040R0010	22
2694	7TAD105040R0011	22
2677	7TAD105040R0002	23
2678	7TAD105030R0004	23
2699	7TAD105040R0013	23
2702	7TAD105040R0014	23
2703	7TAD105030R0008	23
2704	7TAD105040R0015	23
2706	7TAD105040R0017	23
2707	7TAD105040R0018	23
2708	7TAD105040R0019	23

Part No.	GID Code	Page No.
2709	7TAD105040R0020	23
2710	7TAD105040R0021	23
2705-TB	7TAD105040R0016	23
2680	7TAD105050R0004	24
2681	7TAD105030R0005	24
2682	7TAD105030R0006	24
2683	7TAD105040R0003	24
2684	7TAD105040R0004	24
2685	7TAD105040R0005	24
2686	7TAD105040R0006	24
2687	7TAD105040R0007	24
2688	7TAD105050R0005	24
BCG-M121	7TCA303030R0002	25
BCG-M122	7TCA303030R0003	25
BCG-M122-L	7TCA303030R0004	25
BCG-M161	7TCA303030R0005	25
BCG-M161-L	7TCA303030R0006	25
BCG-M162	7TCA303030R0007	25
BCG-M162-L	7TCA303030R0008	25
BCG-M163	7TCA303030R0009	25
BCG-M163-L	7TCA297180R1324	25
BCG-M201	7TCA303030R0010	25
BCG-M201-L	7TCA303030R0011	25
BCG-M202	7TCA303030R0001	25
BCG-M202-L	7TCA303030R0012	26
BCG-M203	7TCA303030R0013	26
BCG-M203-L	7TCA303030R0014	26
BCG-M251	7TCA303030R0015	26
BCG-M251-L	7TCA303030R0016	26
BCG-M252	7TCA303030R0017	26
BCG-M252-L	7TCA303030R0018	26
BCG-M253	7TCA303030R0019	26
BCG-M253-L	7TCA303030R0020	26
BCG-M254	7TCA303030R0000	26
BCG-M254-L	7TCA303030R0021	26
BCG-M321	7TCA303030R0022	26
BCG-M321-L	7TCA303030R0023	26
BCG-M322	7TCA303030R0024	26
BCG-M322-L	7TCA303030R0025	26
BCG-M323	7TCA303030R0026	26
BCG-M323-L	7TCA303030R0027	26
BCG-M324	7TCA303030R0028	26
BCG-M324-L	7TCA303030R0029	26
BCG-M325	7TCA303030R0030	26
BCG-M325-L	7TCA303030R0031	26
BCG-M401	7TCA303030R0032	26
BCG-M401-L	7TCA303030R0033	26
BCG-M402	7TCA303030R0034	26
BCG-M402-L	7TCA303030R0035	26

Part No.	GID Code	Page No.
BCG-0381	7TCA303030R0054	27
BCG-0382	7TCA303030R0055	27
BCG-0501	7TCA303030R0056	27
BCG-M403	7TCA303030R0036	27
BCG-M403-L	7TCA303030R0037	27
BCG-M404	7TCA303030R0038	27
BCG-M404-L	7TCA303030R0039	27
BCG-M501	7TCA303030R0040	27
BCG-M501-L	7TCA303030R0041	27
BCG-M502	7TCA303030R0042	27
BCG-M502-L	7TCA303030R0043	27
BCG-M503	7TCA303030R0044	27
BCG-M503-L	7TCA303030R0045	27
BCG-M504	7TCA303030R0046	27
BCG-M504-L	7TCA303030R0047	27
BCG-M631	7TCA303030R0048	27
BCG-M631-L	7TCA303030R0049	27
BCG-M632	7TCA303030R0050	27
BCG-M632-L	7TCA303030R0051	27
BCG-M633	7TCA303030R0052	27
BCG-M633-L	7TCA303030R0053	27
BCG-0502	7TCA303030R0057	28
BCG-0503	7TCA303030R0058	28
BCG-0751	7TCA303030R0102	28
BCG-0752	7TCA303030R0059	28
BCG-1001	7TCA303030R0060	28
BCG-1002	7TCA303030R0061	28
BCG-PG111	7TCA303030R0070	28
BCG-PG111-L	7TCA303030R0071	28
BCG-PG112	7TCA303030R0072	28
BCG-PG112-L	7TCA303030R0073	28
BCG-PG131	7TCA303030R0074	28
BCG-PG131-L	7TCA303030R0075	28
BCG-PG132	7TCA303030R0076	28
BCG-PG71	7TCA303030R0062	28
BCG-PG71-L	7TCA303030R0063	28
BCG-PG72	7TCA303030R0064	28
BCG-PG72-L	7TCA303030R0065	28
BCG-PG91	7TCA303030R0066	28
BCG-PG91-L	7TCA303030R0067	28
BCG-PG92	7TCA303030R0068	28
BCG-PG92-L	7TCA303030R0069	28
BCG-PG132-L	7TCA303030R0077	29
BCG-PG161	7TCA303030R0078	29
BCG-PG161-L	7TCA303030R0079	29
BCG-PG162	7TCA303030R0080	29
BCG-PG162-L	7TCA303030R0081	29
BCG-PG211	7TCA303030R0082	29
BCG-PG211-L	7TCA303030R0083	29

Index & useful information

Order code classification

Part No.	GID Code	Page No.
BCG-PG212	7TCA303030R0084	29
BCG-PG212-L	7TCA303030R0085	29
BCG-PG291	7TCA303030R0086	29
BCG-PG291-L	7TCA303030R0087	29
BCG-PG292	7TCA303030R0088	29
BCG-PG292-L	7TCA303030R0089	29
BCG-PG361	7TCA303030R0090	29
BCG-PG361-L	7TCA303030R0091	29
BCG-PG362	7TCA303030R0092	29
BCG-PG362-L	7TCA303030R0093	29
BCG-PG421	7TCA303030R0094	29
BCG-PG421-L	7TCA303030R0095	29
BCG-PG422	7TCA303030R0096	29
BCG-PG422-L	7TCA303030R0097	29
BCG-PG481	7TCA303030R0098	29
BCG-PG481-L	7TCA303030R0099	29
BCG-PG482	7TCA303030R0100	29
BCG-PG482-L	7TCA303030R0101	29
SCG-M121	7TCA303040R0000	30
SCG-M122	7TCA303040R0002	30
SCG-M122-L	7TCA303040R0003	30
SCG-M161	7TCA303040R0004	30
SCG-M161-L	7TCA303040R0005	30
SCG-M162	7TCA303040R0006	30
SCG-M162-L	7TCA303040R0007	30
SCG-M163	7TCA303040R0008	30
SCG-M163-L	7TCA303040R0102	30
SCG-M201	7TCA303040R0009	30
SCG-M201-L	7TCA303040R0010	30
SCG-M202	7TCA303040R0103	30
SCG-M202-L	7TCA303040R0011	31
SCG-M203	7TCA303040R0012	31
SCG-M203-L	7TCA303040R0013	31
SCG-M251	7TCA303040R0014	31
SCG-M251-L	7TCA303040R0015	31
SCG-M252	7TCA303040R0016	31
SCG-M252-L	7TCA303040R0017	31
SCG-M253	7TCA303040R0018	31
SCG-M253-L	7TCA303040R0019	31
SCG-M254	7TCA303040R0104	31
SCG-M254-L	7TCA303040R0020	31
SCG-M321	7TCA303040R0021	31
SCG-M321-L	7TCA303040R0022	31
SCG-M322	7TCA303040R0023	31
SCG-M322-L	7TCA303040R0024	31
SCG-M323	7TCA303040R0025	31
SCG-M323-L	7TCA303040R0026	31
SCG-M324	7TCA303040R0027	31
SCG-M324-L	7TCA303040R0028	31

Part No.	GID Code	Page No.
SCG-M325	7TCA303040R0029	31
SCG-M325-L	7TCA303040R0030	31
SCG-M401	7TCA303040R0031	31
SCG-M401-L	7TCA303040R0032	31
SCG-M402	7TCA303040R0033	31
SCG-M402-L	7TCA303040R0034	31
SCG-0381	7TCA303040R0053	32
SCG-0382	7TCA303040R0054	32
SCG-0501	7TCA303040R0055	32
SCG-M403	7TCA303040R0035	32
SCG-M403-L	7TCA303040R0036	32
SCG-M404	7TCA303040R0037	32
SCG-M404-L	7TCA303040R0038	32
SCG-M501	7TCA303040R0039	32
SCG-M501-L	7TCA303040R0040	32
SCG-M502	7TCA303040R0041	32
SCG-M502-L	7TCA303040R0042	32
SCG-M503	7TCA303040R0043	32
SCG-M503-L	7TCA303040R0044	32
SCG-M504	7TCA303040R0045	32
SCG-M504-L	7TCA303040R0046	32
SCG-M631	7TCA303040R0047	32
SCG-M631-L	7TCA303040R0048	32
SCG-M632	7TCA303040R0049	32
SCG-M632-L	7TCA303040R0050	32
SCG-M633	7TCA303040R0051	32
SCG-M633-L	7TCA303040R0052	32
SCG-0502	7TCA303040R0056	33
SCG-0503	7TCA303040R0057	33
SCG-0751	7TCA303040R0101	33
SCG-0752	7TCA303040R0058	33
SCG-1001	7TCA303040R0059	33
SCG-1002	7TCA303040R0060	33
SCG-PG111	7TCA303040R0069	33
SCG-PG111-L	7TCA303040R0070	33
SCG-PG112	7TCA303040R0071	33
SCG-PG112-L	7TCA303040R0072	33
SCG-PG131	7TCA303040R0073	33
SCG-PG131-L	7TCA303040R0074	33
SCG-PG132	7TCA303040R0075	33
SCG-PG71	7TCA303040R0061	33
SCG-PG71-L	7TCA303040R0062	33
SCG-PG72	7TCA303040R0063	33
SCG-PG72-L	7TCA303040R0064	33
SCG-PG91	7TCA303040R0065	33
SCG-PG91-L	7TCA303040R0066	33
SCG-PG92	7TCA303040R0067	33
SCG-PG92-L	7TCA303040R0068	33
SCG-PG132-L	7TCA303040R0076	34

Part No.	GID Code	Page No.
SCG-PG161	7TCA303040R0077	34
SCG-PG161-L	7TCA303040R0078	34
SCG-PG162	7TCA303040R0079	34
SCG-PG162-L	7TCA303040R0080	34
SCG-PG211	7TCA303040R0081	34
SCG-PG211-L	7TCA303040R0082	34
SCG-PG212	7TCA303040R0083	34
SCG-PG212-L	7TCA303040R0084	34
SCG-PG291	7TCA303040R0085	34
SCG-PG291-L	7TCA303040R0086	34
SCG-PG292	7TCA303040R0087	34
SCG-PG292-L	7TCA303040R0088	34
SCG-PG361	7TCA303040R0089	34
SCG-PG361-L	7TCA303040R0090	34
SCG-PG362	7TCA303040R0091	34
SCG-PG362-L	7TCA303040R0092	34
SCG-PG421	7TCA303040R0093	34
SCG-PG421-L	7TCA303040R0094	34
SCG-PG422	7TCA303040R0095	34
SCG-PG422-L	7TCA303040R0096	34
SCG-PG481	7TCA303040R0097	34
SCG-PG481-L	7TCA303040R0098	34
SCG-PG482	7TCA303040R0099	34
SCG-PG482-L	7TCA303040R0100	34
BEM-M121	7TCA303080R0041	35
BEM-M161	7TCA303080R0042	35
BEM-M201	7TCA303080R0043	35
BEM-M202	7TCA303080R0044	35
BEM-M251	7TCA303080R0045	35
BEM-M321	7TCA303080R0046	35
BEM-M401	7TCA303080R0047	35
BEM-M501	7TCA303080R0048	35
BEM-M631	7TCA303080R0049	35
BEM-M632	7TCA303080R0050	35
BEM-0251	7TCA303080R0051	36
BEM-0381	7TCA303080R0052	36
BEM-0501	7TCA303080R0053	36
BEM-0502	7TCA303080R0054	36
BEM-0751	7TCA303080R0055	36
BEM-1001	7TCA303080R0056	36
BEM-1251	7TCA303080R0057	36
BEM-1501	7TCA303080R0058	36
BEM-2001	7TCA303080R0059	36
BEM-PG111	7TCA303080R0061	36
BEM-PG131	7TCA303080R0062	36
BEM-PG161	7TCA303080R0063	36
BEM-PG211	7TCA303080R0064	36
BEM-PG291	7TCA303080R0065	36
BEM-PG361	7TCA303080R0066	36

Index & useful information

Order code classification

Part No.	GID Code	Page No.
BEM-PG421	7TCA303080R0067	36
BEM-PG481	7TCA303080R0068	36
BEM-PG71	7TCA303080R0060	36
2516	7TBD105260R0035	37
2517	7TBA127990R0166	37
2518	7TBD105250R0016	37
2519	7TBD105250R0017	37
2520	7TBD105230R0000	37
2521	7TBD105230R0001	37
2522	7TBD105230R0002	37
2523	7TBD105240R0006	37
2524	7TBD105230R0003	37
2525	7TBD105240R0007	37
2530	7TBD105250R0018	38
2531	7TBD105240R0008	38
2532	7TBD105240R0009	38
2534	7TBD105240R0010	38
2535	7TBD105230R0004	38
2536	7TBD105240R0011	38
2541	7TBD105250R0019	38
2542	7TBD105250R0020	38
2544	7TBD105250R0021	38
2545	7TBD105240R0012	38
2546	7TBD105240R0013	38
2547	7TBD105240R0014	38
2548	7TBD105240R0015	38
2549	7TBD105250R0022	38
2556	7TBD105240R0016	38
2557	7TBD105250R0023	38
2558	7TBD105240R0017	38
2559	7TBD105240R0018	38
2562	7TBD105250R0026	38
2563	7TBD105240R0019	38
2564	7TBD105240R0020	38
2565	7TBD105240R0021	38
2573	7TBD105240R0022	38
2574	7TBD105240R0023	38
2575	7TBD105240R0024	39
2576	7TBD105250R0030	39
2577	7TBD105250R0031	39
2584	7TBD105250R0032	39
2585	7TBD105240R0025	39
2586	7TBD105240R0026	39
2587	7TBD105250R0033	39
2592	7TBD105240R0027	39
2593	7TBD105250R0034	39
2594	7TBD105240R0028	39
2595	7TBD105250R0035	39
2596	7TBD105250R0036	39

Part No.	GID Code	Page No.
2250	7TBD105240R0000	40
2251	7TBD105250R0005	40
2252	7TBD105260R0022	40
2268	7TBD105240R0002	40
2269	7TBD105240R0003	40
2270	7TBD105250R0008	40
2271	7TBD105260R0027	40
2272	7TBA127990R0138	40
2273	7TBD105240R0004	40
2253	7TBD105250R0006	41
2254	7TBD105260R0023	41
2255	7TBD105260R0024	41
2256	7TBD105260R0025	41
2257	7TBD105250R0007	41
2258	7TBD105260R0026	41
2274	7TBD105250R0010	41
2275	7TBD105240R0005	41
2276	7TBD105260R0028	41
2277	7TBD105250R0011	41
2278	7TBD105260R0029	41
2279	7TBD105260R0030	41
2280	7TBD105250R0012	41
2282	7TBD105260R0032	41
2283	7TBD105260R0033	41
2284	7TBA127990R0144	41
2285	7TBD105250R0013	41
2286	7TBD105250R0014	41
2200	7TBD105250R0000	42
2201	7TBD105250R0001	42
2202	7TBD105250R0002	42
2203	7TBD105260R0004	42
2204	7TBD105250R0003	42
2205	7TBD105260R0005	42
2206-TB	7TBD105260R0006	42
2207-TB	7TBD105260R0007	42
2208-TB	7TBD105260R0008	42
2209	7TBD105250R0004	43
2210	7TBD105260R0009	43
2211	7TBD105260R0010	43
2213	7TBD105260R0011	43
2214	7TBD105260R0012	43
2215	7TBD105260R0013	43
2216	7TBD105260R0014	43
2217	7TBD105260R0015	43
2218	7TBD105260R0016	43
2219	7TBD105260R0017	43
2222	7TBD105260R0020	43
2223	7TBD105260R0021	43
2631	7TAD105160R0000	44

Part No.	GID Code	Page No.
2632	7TAD105160R0001	44
2633	7TAD105160R0002	44
2634	7TAD105150R0000	44
2637	7TAD105150R0001	44
2638	7TAD105150R0002	44
2639	7TAD105150R0003	44
2640	7TAD105150R0004	44
2641	7TAD105160R0003	44
2646	7TAD105150R0005	44
2647	7TAD105150R0006	44
2648	7TAD105150R0007	44
2520-2	7TBD105010R0000	45
2530-2	7TBD105020R0000	45
2531-2	7TBD105010R0001	45
2531-3	7TBD105010R0002	45
2540-3	7TBD105020R0001	45
2540-4	7TBD105010R0003	45
2541-2	7TBD105020R0002	45
2541-3	7TBD105020R0003	45
2542-2	7TBD105020R0005	45
2555-2	7TBD105020R0006	45
2920SST	7TAD105340R0001	46
2921SST	7TAD105340R0002	46
2922SST	7TAD105340R0003	46
2930SST	7TAD105340R0004	46
2931SST	7TAD105340R0005	46
2932SST	7TAD105340R0006	46
2940SST	7TAD105340R0007	46
2941SST	7TAD105340R0008	46
2942SST	7TAD105340R0009	46
2920AL	7TBD105090R0000	47
2921AL	7TBD105090R0001	47
2922AL	7TBD105090R0002	47
2930AL	7TBD105100R0000	47
2931AL	7TBD105100R0001	47
2932AL	7TBD105090R0003	47
2940AL	7TBD105110R0005	47
2941AL	7TBD105100R0002	47
2942AL	7TBD105100R0003	47
4960AL	7TBD105100R0004	48
4961AL	7TBD105100R0005	48
4970AL	7TBD105110R0021	48
4971AL	7TBD105110R0022	48
4972AL	7TBD105110R0023	48
4980AL	7TBD105110R0024	48
4981AL	7TBD105260R0042	48
4982AL	7TBD105110R0025	48
WMG-PC1	7TAD105290R0000	49
WMG-PC2	7TAD105290R0007	49

Index & useful information

Order code classification

Part No.	GID Code	Page No.
WMG-PC3	7TAD105280R0003	49
WMG-PC4	7TAD105280R0004	49
WMG-PC5	7TAD105280R0005	49
WMG-PC6	7TAD105980R0070	49
WMG-PC7	7TAD105290R0011	49
WMG-PC8	7TAD105290R0012	49
WMG-PC9	7TAD105280R0006	49
WMG-PC10	7TAD105290R0001	50
WMG-PC11	7TAD105290R0002	50
WMG-PC12	7TAD105280R0000	50
WMG-PC13	7TAD105290R0003	50
WMG-PC14	7TAD105280R0001	50
WMG-PC15	7TAD105280R0002	50
WMG-PC16	7TAD105290R0004	50
WMG-PC17	7TAD105290R0005	50
WMG-PC18	7TAD105980R0056	50
WMG-PC19	7TAD105290R0006	50
WMG-PC20	7TAD105290R0008	50
WMG-PC21	7TAD105290R0009	50
WMG-PC22	7TAD105290R0010	50
RNCG-M122	7TCA303080R0017	52
RNCG-M163	7TCA303080R0019	52
RNCG-M163-S	7TCA303080R0018	52
RNCG-M164	7TCA303080R0020	52
RNCG-M164-L	7TCA303080R0021	52
RNCG-M202	7TCA303080R0022	52
RNCG-M202-L	7TCA303080R0023	52
RNCG-M205	7TCA303080R0024	52
RNCG-M205-L	7TCA303080R0025	52
RNCG-M254	7TCA303080R0026	52
RNCG-M254-L	7TCA303080R0027	53
RNCG-M324-L	7TCA303080R0028	53
RNCG-M404	7TCA303080R0029	53
RBCG-M122	7TCA303080R0002	54
RBCG-M122-S	7TCA303080R0000	54
RBCG-M163	7TCA303080R0003	54
RBCG-M163-S	7TCA303080R0001	54
RBCG-M164	7TCA303080R0005	54
RBCG-M164-S	7TCA303080R0004	54
RBCG-M202	7TCA303080R0007	54
RBCG-M202-S	7TCA303080R0006	54
RBCG-M204	7TCA303080R0009	54
RBCG-M204-S	7TCA303080R0008	54
RBCG-M254	7TCA303080R0011	55
RBCG-M254-S	7TCA303080R0010	55
RBCG-M325	7TCA303080R0013	55
RBCG-M325-S	7TCA303080R0012	55
RBCG-M405	7TCA303080R0015	55
RBSG-M201	7TCA303080R0030	56

Part No.	GID Code	Page No.
RBSG-M202	7TCA303080R0031	56
RBSG-M251	7TCA303080R0032	56
RBSG-M252	7TCA303080R0033	56
RBSG-M321	7TCA303080R0034	56
RBSG-M322	7TCA303080R0035	56
RBSG-M323	7TCA303080R0036	56
RBSG-M401	7TCA303080R0037	56
RBSG-M402	7TCA303080R0038	56
RBSG-M501	7TCA303080R0039	56
RBSG-M502	7TCA303080R0040	56
FSCG-0381	7TCA303080R0073	58
FSCG-0382	7TCA303080R0074	58
FSCG-0501	7TCA303080R0075	58
FSCG-0751	7TCA303080R0076	58
FSCG-M121	7TCA303080R0069	58
FSCG-M161	7TCA303080R0070	58
FSCG-M201	7TCA303080R0071	58
FSCG-M251	7TCA303080R0072	58
FSEM-M161	7TCA303080R0077	59
FSEM-M201	7TCA303080R0078	59
FSEM-M251	7TCA303080R0079	59
EXCGM20M	7TCA297180R0004	64
EXCGM20ML	7TCA297180R0005	64
EXCGM20S	7TCA297180R0006	64
EXCGM20SL	7TCA297180R0007	64
EXCGM25M	7TCA297180R0008	64
EXCGM25S	7TCA297180R0009	64
EXCGM25SL	7TCA297180R0010	64
EXCGM32M	7TCA297180R0109	64
EXCGM32S	7TCA297180R0011	64
EXCGM40M	7TCA297180R0013	64
EXCGM40S	7TCA297180R0014	64
EXCGM50S	7TCA297180R0015	64
EXN03MMC2	7TCA297180R0021	65
EXN04MLC2	7TCA297180R0029	65
EXN04MMC2	7TCA297180R0031	65
EXN05MLC2	7TCA297180R0039	65
EXN05MMC2	7TCA297180R0041	65
EXN06MLC2	7TCA297180R0047	65
EXN06MMC2	7TCA297180R0049	65
EXN07MMC2	7TCA297180R0057	65
EXS03MMC2	7TCA297180R0087	65
EXS04MLC2	7TCA297180R0095	65
EXS04MMC2	7TCA297180R0097	65
EXS05MLC2	7TCA297180R0105	65
EXS05MMC2	7TCA297180R0107	65
EXS06MLC2	7TCA297180R0113	65
EXS06MMC2	7TCA297180R0115	65
EXS07MMC2	7TCA297180R0123	65

Part No.	GID Code	Page No.
FSEM-M251	7TCA303080R0079	65
EXN07MLC2	7TCA297180R0055	66
EXN08MMC2	7TCA297180R0065	66
EXN08MSC2	7TCA297180R0883	66
EXN09MMC2	7TCA297180R0073	66
EXN09MSC2	7TCA297180R0832	66
EXN10MMC2	7TCA297180R0081	66
EXN10MSC2	7TCA297180R0884	66
EXN11MMC2	7TCA297180R0889	66
EXN11MSC2	7TCA297180R0888	66
EXS07MLC2	7TCA297180R0121	66
EXS08MMC2	7TCA297180R0131	66
EXS08MSC2	7TCA297180R0950	66
EXS09MMC2	7TCA297180R0139	66
EXS09MSC2	7TCA297180R0969	66
EXS10MMC2	7TCA297180R0147	66
EXS10MSC2	7TCA297180R0962	66
EXS11MMC2	7TCA297180R0957	66
EXS11MSC2	7TCA297180R0958	66
EXN03AMC2	7TCA297180R0018	67
EXN04ALC2	7TCA297180R0024	67
EXN04AMC2	7TCA297180R0026	67
EXN05ALC2	7TCA297180R0034	67
EXN05AMC2	7TCA297180R0036	67
EXN06ALC2	7TCA297180R0043	67
EXN06AMC2	7TCA297180R0045	67
EXN07ALC2	7TCA297180R0051	67
EXN07AMC2	7TCA297180R0053	67
EXN08AMC2	7TCA297180R0061	67
EXN08ASC2	7TCA297180R0885	67
EXN09AMC2	7TCA297180R0069	67
EXN09ASC2	7TCA297180R0886	67
EXN10AMC2	7TCA297180R0077	67
EXN10ASC2	7TCA297180R0887	67
EXN11AMC2	7TCA297180R0893	67
EXN11ASC2	7TCA297180R0892	67
EXS03AMC2	7TCA297180R0084	67
EXS04ALC2	7TCA297180R0090	67
EXS04AMC2	7TCA297180R0092	67
EXS05ALC2	7TCA297180R0100	67
EXS05AMC2	7TCA297180R0102	67
EXS06ALC2	7TCA297180R0109	67
EXS06AMC2	7TCA297180R0111	67
EXS07ALC2	7TCA297180R0117	67
EXS07AMC2	7TCA297180R0119	67
EXS08AMC2	7TCA297180R0127	67
EXS08ASC2	7TCA297180R0925	67
EXS09AMC2	7TCA297180R0135	67
EXS09ASC2	7TCA297180R0988	67

Index & useful information

Order code classification

Part No.	GID Code	Page No.
EXS10AMC2	7TCA297180R0143	67
EXS10ASC2	7TCA297180R0938	67
EXS11AMC2	7TCA297180R0930	67
EXS11ASC2	7TCA297180R0932	67
EXN04MMAC2F	7TCA297180R1020	68
EXN04MMBC2F	7TCA297180R1021	68
EXN04MMCC2F	7TCA297180R1022	68
EXN04MMDC2F	7TCA297180R1023	68
EXN04MMEC2F	7TCA297180R1024	68
EXN04MMFC2F	7TCA297180R1025	68
EXN05MMAC2F	7TCA297180R1038	68
EXN05MMBC2F	7TCA297180R1039	68
EXN05MMCC2F	7TCA297180R1040	68
EXN05MMDC2F	7TCA297180R1041	68
EXN05MMEC2F	7TCA297180R1042	68
EXN05MMFC2F	7TCA297180R1043	68
EXN05MMGC2F	7TCA297180R1044	68
EXN05MMHC2F	7TCA297180R1045	68
EXN04AMAC2F	7TCA297180R1032	69
EXN04AMBC2F	7TCA297180R1033	69
EXN04AMCC2F	7TCA297180R1034	69
EXN04AMDC2F	7TCA297180R1035	69
EXN04AMEC2F	7TCA297180R1036	69
EXN04AMFC2F	7TCA297180R1037	69
EXN05AMAC2F	7TCA297180R1054	69
EXN05AMBC2F	7TCA297180R1055	69
EXN05AMCC2F	7TCA297180R1056	69
EXN05AMDC2F	7TCA297180R1057	69
EXN05AMEC2F	7TCA297180R1058	69
EXN05AMFC2F	7TCA297180R1059	69
EXN05AMGC2F	7TCA297180R1060	69
EXN05AMHC2F	7TCA297180R1061	69
EXN03MMC3	7TCA297180R0276	70
EXN04MMC3	7TCA297180R0278	70
EXN04MSC3	7TCA297180R0277	70
EXN05AMHC2F	7TCA297180R1061	70
EXN05MLC3	7TCA297180R0280	70
EXN05MMC3	7TCA297180R0279	70
EXN05MSC3	7TCA297180R0256	70
EXN06MMC3	7TCA297180R0282	70
EXN06MSC3	7TCA297180R0281	70
EXN07MSC3	7TCA297180R0283	70
EXS03MMC3	7TCA297180R0307	70
EXS04MMC3	7TCA297150R0072	70
EXS04MSC3	7TCA297180R0309	70
EXS05MLC3	7TCA297180R0312	70
EXS05MMC3	7TCA297180R0311	70
EXS05MSC3	7TCA297180R0310	70
EXS06MMC3	7TCA297180R0314	70

Part No.	GID Code	Page No.
EXS06MSC3	7TCA297180R0313	70
EXS07MSC3	7TCA297180R0315	70
EXN03AMC3	7TCA297180R0292	71
EXN03ASC3	7TCA297180R1000	71
EXN04AMC3	7TCA297180R0295	71
EXN04ASC3	7TCA297180R0294	71
EXN05ALC3	7TCA297180R0227	71
EXN05AMC3	7TCA297180R0226	71
EXN05ASC3	7TCA297180R0230	71
EXN06AMC3	7TCA297180R0297	71
EXN06ASC3	7TCA297180R0296	71
EXN07ASC3	7TCA297180R0298	71
EXN07MMC3	7TCA297180R0284	71
EXN08MMC3	7TCA297180R0286	71
EXN08MSC3	7TCA297180R0285	71
EXN09MMC3	7TCA297180R0288	71
EXN09MSC3	7TCA297180R0287	71
EXN10MMC3	7TCA297180R0290	71
EXN10MSC3	7TCA297180R0289	71
EXN11MMC3	7TCA297180R1012	71
EXN11MSC3	7TCA297180R0991	71
EXS03AMC3	7TCA297180R0324	71
EXS03ASC3	7TCA297180R1008	71
EXS04AMC3	7TCA297180R0327	71
EXS04ASC3	7TCA297180R0326	71
EXS05ALC3	7TCA297180R0330	71
EXS05AMC3	7TCA297180R0329	71
EXS05ASC3	7TCA297180R0328	71
EXS06AMC3	7TCA297180R0332	71
EXS06ASC3	7TCA297180R0331	71
EXS07ASC3	7TCA297180R0257	71
EXS07MMC3	7TCA297180R0993	71
EXS08MMC3	7TCA297180R0318	71
EXS08MSC3	7TCA297180R0317	71
EXS09MMC3	7TCA297180R0320	71
EXS09MSC3	7TCA297180R0319	71
EXS10MMC3	7TCA297180R0321	71
EXS10MSC3	7TCA297180R0994	71
EXS11MMC3	7TCA297180R0322	71
EXS11MSC3	7TCA297180R0997	71
EXN07AMC3	7TCA297180R0299	72
EXN08AMC3	7TCA297180R0301	72
EXN08ASC3	7TCA297180R0300	72
EXN09AMC3	7TCA297180R0303	72
EXN09ASC3	7TCA297180R0302	72
EXN10AMC3	7TCA297180R0305	72
EXN10ASC3	7TCA297180R0304	72
EXN11AMC3	7TCA297180R1006	72
EXN11ASC3	7TCA297180R0975	72

Part No.	GID Code	Page No.
EXS07AMC3	7TCA297180R1003	72
EXS08AMC3	7TCA297180R0259	72
EXS08ASC3	7TCA297180R0258	72
EXS09AMC3	7TCA297180R0261	72
EXS09ASC3	7TCA297180R0260	72
EXS10AMC3	7TCA297180R0262	72
EXS10ASC3	7TCA297180R0976	72
EXS11AMC3	7TCA297180R0263	72
EXS11ASC3	7TCA297180R0979	72
EXN03MMC6	7TCA297180R0798	73
EXN03MSC6	7TCA297180R0797	73
EXN04MMC6	7TCA297180R0799	73
EXN05MMC6	7TCA297180R0800	73
EXN06MMC6	7TCA297180R0801	73
EXN07MMC6	7TCA297180R0802	73
EXN08MMC6	7TCA297180R0803	73
EXN09MMC6	7TCA297180R0804	73
EXN03AMC6	7TCA297180R0807	74
EXN03ASC6	7TCA297180R0806	74
EXN04AMC6	7TCA297180R0808	74
EXN05AMC6	7TCA297180R0809	74
EXN06AMC6	7TCA297180R0810	74
EXN07AMC6	7TCA297180R0811	74
EXN08AMC6	7TCA297180R0812	74
EXN04MMAC6F	7TCA297180R1062	75
EXN04MMBC6F	7TCA297180R1063	75
EXN04MMCC6F	7TCA297180R1064	75
EXN04MMDC6F	7TCA297180R1065	75
EXN04MMEC6F	7TCA297180R1066	75
EXN04MMFC6F	7TCA297180R1067	75
EXN05MMAC6F	7TCA297180R1074	75
EXN05MMBC6F	7TCA297180R1075	75
EXN05MMCC6F	7TCA297180R1076	75
EXN05MMDC6F	7TCA297180R1077	75
EXN05MMEC6F	7TCA297180R1078	75
EXN05MMFC6F	7TCA297180R1079	75
EXN05MMGC6F	7TCA297180R1080	75
EXN05MMHC6F	7TCA297180R1081	75
EXN04AMAC6F	7TCA297180R1068	76
EXN04AMBC6F	7TCA297180R1069	76
EXN04AMCC6F	7TCA297180R1070	76
EXN04AMDC6F	7TCA297180R1071	76
EXN04AMEC6F	7TCA297180R1072	76
EXN04AMFC6F	7TCA297180R1073	76
EXN05AMAC6F	7TCA297180R1082	76
EXN05AMBC6F	7TCA297180R1083	76
EXN05AMCC6F	7TCA297180R1084	76
EXN05AMDC6F	7TCA297180R1085	76
EXN05AMEC6F	7TCA297180R1086	76

Index & useful information

Order code classification

Part No.	GID Code	Page No.
EXN05AMFC6F	7TCA297180R1087	76
EXN05AMGC6F	7TCA297180R1088	76
EXN05AMHC6F	7TCA297180R1089	76
EXN04MC4	7TCA297180R0699	77
EXN05MC4	7TCA297180R0703	77
EXN06MC4	7TCA297180R0707	77
EXN07MC4	7TCA297180R0711	77
EXN08MC4	7TCA297180R0737	77
EXN09MC4	7TCA297180R0753	77
EXS04MC4	7TCA297180R0715	77
EXS05MC4	7TCA297180R0719	77
EXS06MC4	7TCA297180R0723	77
EXS07MC4	7TCA297180R0727	77
EXS08MC4	7TCA297180R0740	77
EXS09MC4	7TCA297180R0757	77
EXN04AC4	7TCA297180R0697	78
EXN05AC4	7TCA297180R0701	78
EXN06AC4	7TCA297180R0705	78
EXN07AC4	7TCA297180R0709	78
EXN08AC4	7TCA297180R0735	78
EXN09AC4	7TCA297180R0751	78
EXS04AC4	7TCA297180R0713	78
EXS05AC4	7TCA297180R0717	78
EXS06AC4	7TCA297180R0721	78
EXS07AC4	7TCA297180R0725	78
EXS08AC4	7TCA297180R0738	78
EXS09AC4	7TCA297180R0755	78
ISRM20-13	7TBA297190R0010	79
ISRM20-15	7TBA297190R0011	79
ISRM25-15	7TBA297190R0018	79
ISRM25-20	7TBA297190R0012	79
ISRM32-26	7TBA297190R0013	79
ISRM40-31	7TBA297190R0014	79
ISRM40-35	7TBA297190R0015	79
ISRM50-39	7TBA297190R0019	79
ISRM63-45	7TBA297190R0016	79
ISRM63-52	7TBA297190R0017	79
ISR050-062	7TBA297190R0001	80
ISR075-062	7TBA297190R0009	80
ISR075-082	7TBA297190R0002	80
ISR100-102	7TBA297190R0003	80
ISR125-122	7TBA297190R0004	80
ISR125-137	7TBA297190R0005	80
ISR150-156	7TBA297190R0006	80
ISR200-179	7TBA297190R0007	80
ISR200-206	7TBA297190R0008	80
TCF050-27AL	7TBD105310R0022	81
TCF050-40AL	7TBD105320R0000	81
TCF050-54AL	7TBD105310R0025	81

Part No.	GID Code	Page No.
TCF050-67AL	7TBD105310R0027	81
TCF050-78AL	7TBD105310R0028	81
TCF075-40AL	7TBD105310R0029	81
TCF075-54AL	7TBD105320R0002	81
TCF075-67AL	7TBD105320R0003	81
TCF075-78AL	7TBD105320R0004	81
TCF075-88AL	7TBD105310R0033	81
TCF100-100AL	7TBD105310R0035	82
TCF100-109AL	7TBD105320R0005	82
TCF100-78AL	7TBD105310R0038	82
TCF100-88AL	7TBD105320R0006	82
TCF125-109AL	7TBD105310R0041	82
TCF125-128AL	7TBD105310R0042	82
TCF125-147AL	7TBD105310R0043	82
TCF150-115AL	7TBD105310R0044	82
TCF150-140AL	7TBD105320R0007	82
TCF150-165AL	7TBD105310R0045	82
TCF200-153AL	7TBD105310R0046	82
TCF200-186AL	7TBD105320R0008	82
TCF200-219AL	7TBD105320R0009	82
TCF250-252AL	7TBD105310R0047	82
TCF300-278AL	7TBD105310R0048	82
TCF300-304AL	7TBD105310R0049	82
TCF300-330AL	7TBD105310R0050	82
EXN03MMC1	7TCA297180R0020	83
EXN03MSC1	7TCA297180R0022	83
EXN04MLC1	7TCA297180R0028	83
EXN04MMC1	7TCA297180R0030	83
EXN04MSC1	7TCA297180R0032	83
EXN05MLC1	7TCA297180R0038	83
EXN05MMC1	7TCA297180R0040	83
EXN05MSC1	7TCA297180R0042	83
EXN06MSC1	7TCA297180R0050	83
EXS03MMC1	7TCA297180R0086	83
EXS03MSC1	7TCA297180R0088	83
EXS04MLC1	7TCA297180R0094	83
EXS04MMC1	7TCA297180R0096	83
EXS04MSC1	7TCA297180R0098	83
EXS05MLC1	7TCA297180R0104	83
EXS05MMC1	7TCA297180R0106	83
EXS05MSC1	7TCA297180R0108	83
EXS06MSC1	7TCA297180R0116	83
EXN03AMC1	7TCA297180R0017	84
EXN03ASC1	7TCA297180R0019	84
EXN04ALC1	7TCA297180R0023	84
EXN04AMC1	7TCA297180R0025	84
EXN04ASC1	7TCA297180R0027	84
EXN05ALC1	7TCA297180R0033	84
EXN05AMC1	7TCA297180R0035	84

Part No.	GID Code	Page No.
EXN05ASC1	7TCA297180R0037	84
EXN06ASC1	7TCA297180R0046	84
EXN06MMC1	7TCA297180R0048	84
EXN07MMC1	7TCA297180R0056	84
EXN07MSC1	7TCA297180R0058	84
EXN08MMC1	7TCA297180R0064	84
EXN08MSC1	7TCA297180R0066	84
EXN09MMC1	7TCA297180R0072	84
EXN09MSC1	7TCA297180R0074	84
EXN10MMC1	7TCA297180R0080	84
EXN10MSC1	7TCA297180R0082	84
EXN11MMC1	7TCA297180R0223	84
EXN11MSC1	7TCA297180R0880	84
EXN12MMC1	7TCA297180R0224	84
EXS03AMC1	7TCA297180R0083	84
EXS03ASC1	7TCA297180R0085	84
EXS04ALC1	7TCA297180R0089	84
EXS04AMC1	7TCA297180R0091	84
EXS04ASC1	7TCA297180R0093	84
EXS05ALC1	7TCA297180R0099	84
EXS05AMC1	7TCA297180R0101	84
EXS05ASC1	7TCA297180R0103	84
EXS06ASC1	7TCA297180R0112	84
EXS06MMC1	7TCA297180R0114	84
EXS07MMC1	7TCA297180R0122	84
EXS07MSC1	7TCA297180R0124	84
EXS08MMC1	7TCA297180R0130	84
EXS08MSC1	7TCA297180R0132	84
EXS09MMC1	7TCA297180R0138	84
EXS09MSC1	7TCA297180R0140	84
EXS10MMC1	7TCA297180R0146	84
EXS10MSC1	7TCA297180R0148	84
EXS11MMC1	7TCA297180R0902	84
EXS11MSC1	7TCA297180R0905	84
EXN06AMC1	7TCA297180R0044	85
EXN07AMC1	7TCA297180R0052	85
EXN07ASC1	7TCA297180R0054	85
EXN08AMC1	7TCA297180R0060	85
EXN08ASC1	7TCA297180R0062	85
EXN09AMC1	7TCA297180R0068	85
EXN09ASC1	7TCA297180R0070	85
EXN10AMC1	7TCA297180R0076	85
EXN10ASC1	7TCA297180R0078	85
EXN11AMC1	7TCA297180R0882	85
EXN11ASC1	7TCA297180R0881	85
EXS06AMC1	7TCA297180R0110	85
EXS07AMC1	7TCA297180R0118	85
EXS07ASC1	7TCA297180R0120	85
EXS08AMC1	7TCA297180R0126	85

Index & useful information

Order code classification

Part No.	GID Code	Page No.
EXS08ASC1	7TCA297180R0128	85
EXS09AMC1	7TCA297180R0134	85
EXS09ASC1	7TCA297180R0136	85
EXS10AMC1	7TCA297180R0142	85
EXS10ASC1	7TCA297180R0144	85
EXS11AMC1	7TCA297180R0900	85
EXS11ASC1	7TCA297180R0907	85
EXN04AC5	7TCA297180R0698	86
EXN04MC5	7TCA297180R0700	86
EXN05AC5	7TCA297180R0702	86
EXN05MC5	7TCA297180R0704	86
EXN06AC5	7TCA297180R0706	86
EXN06MC5	7TCA297180R0708	86
EXN07AC5	7TCA297180R0710	86
EXN07MC5	7TCA297180R0712	86
EXN08AC5	7TCA297180R0736	86
EXN08MC5	7TCA297180R0734	86
EXN09AC5	7TCA297180R0752	86
EXN09MC5	7TCA297180R0754	86
EXS04AC5	7TCA297180R0714	86
EXS04MC5	7TCA297180R0716	86
EXS05AC5	7TCA297180R0718	86
EXS05MC5	7TCA297180R0720	86
EXS06AC5	7TCA297180R0722	86
EXS06MC5	7TCA297180R0724	86
EXS07AC5	7TCA297180R0726	86
EXS07MC5	7TCA297180R0728	86
EXS08AC5	7TCA297180R0739	86
EXS08MC5	7TCA297180R0741	86
EXS09AC5	7TCA297180R0756	86
EXS09MC5	7TCA297180R0758	86
ST038-461S	7TBA051110R0000	87
ST050-462	7TBA051020R0000	87
ST050-464	7TBA051020R0001	87
ST050-465	7TBA051020R0002	87
ST050-466	7TBA051030R0000	87
ST075-467	7TBA051020R0003	87
ST075-468	7TBA051030R0001	87
ST100-469	7TBA051030R0002	87
ST125-470	7TBA051030R0003	87
ST125-471	7TBA051030R0004	88
ST125-550	7TBA051030R0005	88
ST150-472	7TBA051020R0004	88
ST150-473	7TBA051030R0006	88
ST200-474	7TBA051030R0007	88
ST200-475	7TBA051030R0008	88
ST200-476	7TBA051040R0000	88
ST200-551	7TBA051030R0009	88
ST250-477	7TBA051030R0010	88

Part No.	GID Code	Page No.
ST250-478	7TBA051030R0011	88
ST300-479	7TBA051030R0012	88
ST300-480	7TBA051030R0013	88
ST300-481	7TBA051030R0014	88
ST350-482	7TBA051040R0001	88
ST350-483	7TBA051040R0002	88
ST400-484	7TBA051040R0003	88
ST400-485	7TBA051040R0004	88
ST400-486	7TBA051040R0005	88
STE050	7TBA051310R0000	89
STE075	7TBA051310R0001	89
STE100	7TBA051310R0002	89
STE125	7TBA051320R0001	89
STE150	7TBA051310R0003	89
STE200	7TBA051310R0004	89
STE250	7TBA051310R0005	89
STE300	7TBA051320R0002	89
STE350	7TBA051320R0003	89
STE400	7TBA051080R0019	89
STED050	7TBA051750R0000	90
STED075	7TBA051750R0001	90
STX075-465	7TBA051150R0012	91
STX075-466	7TBA051150R0013	91
STX100-467	7TBA051160R0013	91
STX100-468	7TBA051160R0014	91
STX125-469	7TBA051160R0015	91
STX150-470	7TBA051160R0016	91
STX150-471	7TBA051160R0017	91
STX150-550	7TBA051160R0018	91
STX200-472	7TBA051160R0019	91
STX200-473	7TBA051160R0020	91
STX200-474	7TBA051160R0021	92
STX250-475	7TBA051160R0022	92
STX250-476	7TBA051160R0023	92
STX300-478	7TBA051160R0024	92
STX300-479	7TBA051160R0025	92
STX350-480	7TBA051160R0026	92
STX350-481	7TBA051160R0027	92
STX400-482	7TBA051160R0028	92
STX400-483	7TBA051160R0029	92
STX400-484	7TBA051150R0014	92
STX400-485	7TBA051160R0030	92
STEX075	7TBA051370R0000	93
STEX100	7TBA051370R0001	93
STEX125	7TBA051080R0020	93
STEX150	7TBA051370R0002	93
STEX200	7TBA051370R0003	93
STEX250	7TBA051370R0004	93
STEX300	7TBA051390R0000	93

Part No.	GID Code	Page No.
STEX350	7TBA051390R0001	93
STEX400	7TBA051390R0002	93
EX/038/SP	7TCA297140R0019	94
EX/050/SP	7TCA297140R0021	94
EX/075/SP	7TCA297140R0024	94
EX/100/SP	7TCA297140R0027	94
EX/125/SP	7TCA297140R0029	94
EX/150/SP	7TCA297140R0031	94
EX/200/SP	7TCA297140R0033	94
EX/M16/SP	7TCA297140R0036	94
EX/M20/SP	7TCA297140R0042	94
EX/M25/SP	7TCA297140R0050	94
EX/M32/SP	7TCA297140R0058	94
EX/M40/SP	7TCA297140R0064	94
EX/M50/SP	7TCA297140R0068	94
EX/M63/SP	7TCA297140R0072	94
EXN/038/SP	7TCA297140R0075	94
EXN/050/SP	7TCA297140R0077	94
EXN/075/SP	7TCA297140R0079	94
EXN/100/SP	7TCA297140R0081	94
EXN/125/SP	7TCA297140R0083	94
EXN/150/SP	7TCA297140R0085	94
EXN/200/SP	7TCA297140R0087	94
EXN/M16/SP	7TCA297140R0090	94
EXN/M20/SP	7TCA297140R0094	94
EXN/M25/SP	7TCA297140R0098	94
EXN/M32/SP	7TCA297140R0102	94
EXN/M40/SP	7TCA297140R0105	94
EXN/M50/SP	7TCA297140R0108	94
EXN/M63/SP	7TCA297140R0111	94
EXS/038/SP	7TCA297140R0133	94
EXS/050/SP	7TCA297140R0113	94
EXS/075/SP	7TCA297140R0134	94
EXS/100/SP	7TCA297070R0123	94
EXS/125/SP	7TCA297140R0135	94
EXS/150/SP	7TCA297140R0114	94
EXS/200/SP	7TCA297140R0115	94
EXS/M16/SP	7TCA297140R0157	94
EXS/M20/SP	7TCA297140R0118	94
EXS/M25/SP	7TCA297140R0121	94
EXS/M32/SP	7TCA297140R0122	94
EXS/M40/SP	7TCA297140R0123	94
EXS/M50/SP	7TCA297140R0124	94
EXS/M63/SP	7TCA297140R0168	94
EX/038/TSP	7TCA297140R0020	95
EX/050/TSP	7TCA297140R0023	95
EX/075/TSP	7TCA297140R0026	95
EX/100/TSP	7TCA297140R0028	95
EX/125/TSP	7TCA297140R0030	95

Index & useful information

Order code classification

Part No.	GID Code	Page No.
EX/150/TSP	7TCA297140R0032	95
EX/200/TSP	7TCA297140R0034	95
EX/M16/TSP	7TCA297140R0037	95
EX/M20/TSP	7TCA297140R0044	95
EX/M25/TSP	7TCA297140R0052	95
EX/M32/TSP	7TCA297140R0060	95
EX/M40/TSP	7TCA297140R0066	95
EX/M50/TSP	7TCA297140R0070	95
EX/M63/TSP	7TCA297140R0073	95
EXN/038/TSP	7TCA297140R0076	95
EXN/050/TSP	7TCA297140R0078	95
EXN/075/TSP	7TCA297140R0080	95
EXN/100/TSP	7TCA297140R0082	95
EXN/125/TSP	7TCA297140R0084	95
EXN/150/TSP	7TCA297140R0086	95
EXN/200/TSP	7TCA297140R0088	95
EXN/M16/TSP	7TCA297140R0091	95
EXN/M20/TSP	7TCA297140R0095	95
EXN/M25/TSP	7TCA297140R0099	95
EXN/M32/TSP	7TCA297140R0103	95
EXN/M40/TSP	7TCA297140R0106	95
EXN/M50/TSP	7TCA297140R0109	95
EXN/M63/TSP	7TCA297140R0112	95
EXS/038/TSP	7TCA297140R0169	95
EXS/050/TSP	7TCA297140R0152	95
EXS/075/TSP	7TCA297140R0153	95
EXS/100/TSP	7TCA297140R0154	95
EXS/125/TSP	7TCA297140R0155	95
EXS/150/TSP	7TCA297140R0156	95
EXS/200/TSP	7TCA297140R0158	95
EXS/M16/TSP	7TCA297140R0159	95
EXS/M20/TSP	7TCA297140R0161	95
EXS/M25/TSP	7TCA297140R0170	95
EXS/M32/TSP	7TCA297140R0160	95
EXS/M40/TSP	7TCA297140R0167	95
EXS/M50/TSP	7TCA297140R0162	95
EXS/M63/TSP	7TCA297140R0165	95
EX/M16/HSP	7TCA297140R0035	96
EX/M20/HSP	7TCA297140R0040	96
EX/M25/HSP	7TCA297140R0048	96
EX/M25/HSP	7TCA297140R0048	96
EX/M25/HSP	7TCA297140R0048	96
EX/M50/HSP	7TCA297140R0067	96
EX/M63/HSP	7TCA297140R0071	96
EXN/M16/HSP	7TCA297140R0089	96
EXN/M20/HSP	7TCA297140R0093	96
EXN/M25/HSP	7TCA297140R0097	96
EXN/M32/HSP	7TCA297140R0101	96
EXN/M40/HSP	7TCA297140R0104	96

Part No.	GID Code	Page No.
EXN/M50/HSP	7TCA297140R0107	96
EXN/M63/HSP	7TCA297140R0110	96
EXS/M16/HSP	7TCA297140R0116	96
EXS/M20/HSP	7TCA297140R0117	96
EXS/M25/HSP	7TCA297140R0119	96
EXS/M32/HSP	7TCA297130R0428	96
EXS/M40/HSP	7TCA297130R0429	96
EXS/M50/HSP	7TCA297130R0430	96
EXS/M63/HSP	7TCA297130R0431	96
EX/M16/DSP	7TCA297140R0132	97
EX/M20/DSP	7TCA297140R0038	97
EX/M25/DSP	7TCA297140R0046	97
EX/M32/DSP	7TCA297140R0054	97
EX/M40/DSP	7TCA297140R0062	97
EX/M50/DSP	7TCA297140R0166	97
EX/M63/DSP	7TCA297140R0164	97
EXN/M16/DSP	7TCA297140R0143	97
EXN/M20/DSP	7TCA297140R0092	97
EXN/M25/DSP	7TCA297140R0096	97
EXN/M32/DSP	7TCA297140R0100	97
EXN/M40/DSP	7TCA297140R0145	97
EXN/M50/DSP	7TCA297140R0146	97
EXN/M63/DSP	7TCA297140R0144	97
EXS/M16/DSP	7TCA297140R0148	97
EXS/M20/DSP	7TCA297140R0126	97
EXS/M25/DSP	7TCA297140R0127	97
EXS/M32/DSP	7TCA297140R0128	97
EXS/M40/DSP	7TCA297140R0129	97
EXS/M50/DSP	7TCA297140R0130	97
EXS/M63/DSP	7TCA297140R0163	97
EX/M16/TSP	7TCA297140R0037	98
EX/M20/TSP	7TCA297140R0044	98
EX/M25/TSP	7TCA297140R0052	98
EX/M32/TSP	7TCA297140R0060	98
EX/M40/TSP	7TCA297140R0066	98
EX/M50/TSP	7TCA297140R0070	98
EX/M63/TSP	7TCA297140R0073	98
EX/038/C	7TCA297130R0452	101
EX/050/C	7TCA297130R0006	101
EX/075/C	7TCA297130R0014	101
EX/100/C	7TCA297130R0023	101
EX/125/C	7TCA297130R0034	101
EX/150/C	7TCA297130R0047	101
EX/200/C	7TCA297130R0061	101
EX/M16/C	7TCA297130R0078	101
EX/M20/C	7TCA297130R0086	101
EX/M25/C	7TCA297130R0096	101
EX/M32/C	7TCA297130R0108	101
EX/M40/C	7TCA297130R0123	101

Part No.	GID Code	Page No.
EX/M50/C	7TCA297130R0139	101
EX/M63/C	7TCA297130R0153	101
EX/M75/C	7TCA297130R0167	101
EXN/038/C	7TCA297130R0523	101
EXN/050/C	7TCA297130R0194	101
EXN/075/C	7TCA297130R0201	101
EXN/100/C	7TCA297130R0210	101
EXN/125/C	7TCA297130R0221	101
EXN/150/C	7TCA297130R0234	101
EXN/200/C	7TCA297130R0248	101
EXN/M16/C	7TCA297130R0261	101
EXN/M20/C	7TCA297130R0267	101
EXN/M25/C	7TCA297130R0276	101
EXN/M32/C	7TCA297130R0286	101
EXN/M40/C	7TCA297130R0298	101
EXN/M50/C	7TCA297130R0312	101
EXN/M63/C	7TCA297130R0326	101
EXN/M75/C	7TCA297130R0638	101
EXS/038/C	7TCA297130R0519	101
EXS/050/C	7TCA297130R0365	101
EXS/075/C	7TCA297130R0367	101
EXS/100/C	7TCA297130R0374	101
EXS/125/C	7TCA297130R0530	101
EXS/150/C	7TCA297130R0543	101
EXS/200/C	7TCA297130R0395	101
EXS/M16/C	7TCA297130R0515	101
EXS/M20/C	7TCA297130R0399	101
EXS/M25/C	7TCA297130R0402	101
EXS/M32/C	7TCA297130R0404	101
EXS/M40/C	7TCA297130R0409	101
EXS/M50/C	7TCA297130R0421	101
EXS/M63/C	7TCA297130R0408	101
EXN/050/DV	7TCA297180R1015	102
EXN/075/DV	7TCA297180R1016	102
EXN/M20/DV	7TCA297180R0828	102
EXN/M25/DV	7TCA297180R0829	102
EXS/050/DV	7TCA297180R1017	102
EXS/075/DV	7TCA297180R1018	102
EXS/M20/DV	7TCA297180R0830	102
EXS/M25/DV	7TCA297180R0831	102
EX/M16/SER	7TCA297150R0012	105
EX/M16/TAG	7TCA297150R0013	105
EX/M20/SER	7TCA297150R0014	105
EX/M20/TAG	7TCA297150R0015	105
EX/M25/SER	7TCA297150R0017	105
EX/M25/TAG	7TCA297150R0018	105
EX/M32/SER	7TCA297150R0020	105
EX/M32/TAG	7TCA297150R0021	105
EX/M40/SER	7TCA297150R0023	105

Index & useful information

Order code classification

Part No.	GID Code	Page No.
EX/M40/TAG	7TCA297150R0024	105
EX/M50/TAG	7TCA297150R0027	105
EX/M63/SER	7TCA297150R0029	105
EX/M63/TAG	7TCA297150R0030	105
BT01	7TCA303000R0006	107
BT02	7TCA303000R0007	107
BT03	7TCA303000R0008	107
BT04	7TCA303000R0009	107
BT05	7TCA303000R0010	107
BT06	7TCA303000R0011	107
BT07	7TCA303000R0012	107
BT08	7TCA303000R0013	107
BT09	7TCA303000R0014	107
BT10	7TCA303000R0015	107
BT11	7TCA303000R0016	107
BT12	7TCA303000R0017	107
BTS01	7TCA303000R0019	107
BTS02	7TCA303000R0020	107
BTS03	7TCA303000R0021	107
BTS04	7TCA303000R0022	107
BTS05	7TCA303000R0023	107
BTS06	7TCA303000R0024	107
BTS07	7TCA303000R0025	107
BTS08	7TCA303000R0026	107
BTS09	7TCA303000R0027	107
BTS10	7TCA303000R0028	107
BTS11	7TCA303000R0029	107

Notes

Additional information

We reserve the right to make technical changes or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. ABB AG does not accept any responsibility whatsoever for potential errors or possible lack of information in this document.

We reserve all rights in this document and in the subject matter and illustrations contained therein. Any reproduction, disclosure to third parties or utilisation of its contents – in whole or in parts – is forbidden without prior written consent of ABB AG.



—

ABB UK Ltd

Tower Court
Foleshill Enterprise Park
Courtaulds Way
Coventry CV6 5NX
UK Sales Support Tel: +44 (0) 2476 368 500
Customer Services E-Mail:
lv.customerservice@gb.abb.com Technical Support E-Mail:
lv.technicalsupport@gb.abb.com

—

US

ABB Installation Products
Electrification business
860 Ridge Lake Blvd.
Memphis, TN 38120
+1 901-252-5000

abb.com/low-voltage

